SHARP SERVICE MANUAL

No. S6842MD701H2/

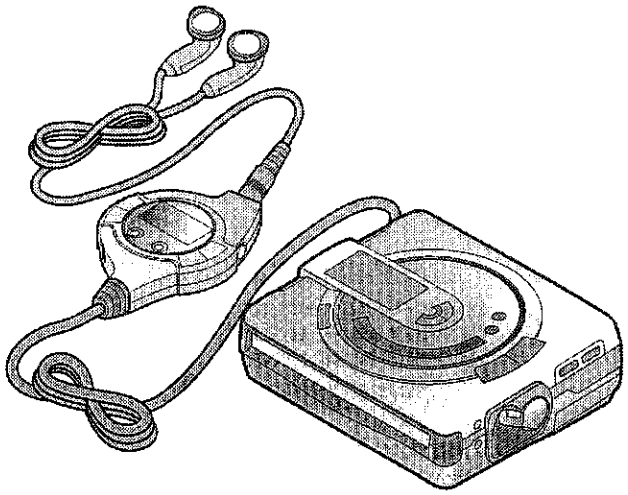

Illustration: MD-MS701H2

MD-MS701H(BL)2
MD-MS701H(S)2
MD-MS701H(MB)2
MD-MS702H(BL)2
MD-MS702H(GR)2
MD-MS702H(GY)2

• In the interests of user-safety the set should be restored to its original condition and only parts identical to those specified should be used.

This Serivce Manual is for the MD-MS701H2/MS702H2, which is a minormodification model of the MD-MS701H/MS702H, This manual, therefore, describes only the changed points from the service manual. Pleasa refer to the MD-MS701H/MS702H, service manual (No. SX789MDMS702H) together with this manual.

MD-MS701H/MS702H

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SHARP CORPORATION

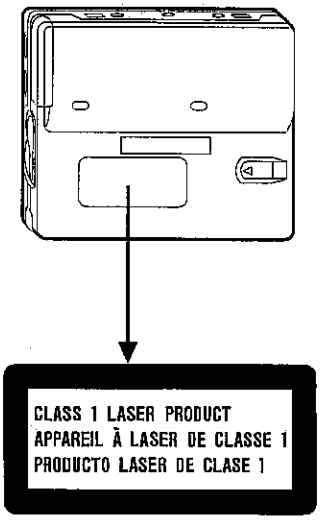
This document has been published to be used for after sales service only.
The contents are subject to change without notice.

SAFETY PRECAUTION FOR SERVICE MANUAL

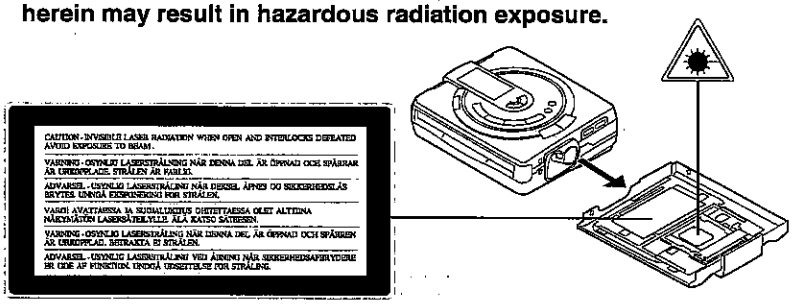
Precaution to be taken when replacing and servicing the Laser Pickup.

The AEL (Accessible Emission Level) of Laser Power Output for this model is specified to be lower than Class I Requirements. However, the following precautions must be observed during servicing to protect your eyes against exposure to the laser beam.

(1) When the cabinet has been removed, the power is turned on without a compact disc, and the Pickup is on a position outer than the lead-in position, the Laser will light for several seconds to detect a disc. Do not look into the Pickup Lens.
(2) The Laser Power Output of the Pickup inside the unit and replacement service parts have already been adjusted prior to shipping.
(3) No adjustment to the Laser Power should be attempted when replacing or servicing the Pickup.
(4) Under no circumstances look directly into the Pickup Lens at any time.
(5) CAUTION - Use of controls or adjustments, or performance of procedures other than those specified herein may result in hazardous radiation exposure.



LASER KLASSE 1
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT
LASER TŘÍDY 1
LASER TRIEDY 1



Laser Diode Properties
- Material: GaAlAs
- Wavelength: 785 nm
- Pulse time:
  Read mode: 0.8 mW Continuous
  Write mode: max 10 mW 0.5S
  min cycle 1.5S
  Repetition

VAROITUS! LAITTEEN KÄYTTÄMINEN MUULLA KUIN TÄSSÄ KÄYTTÖOHJEESSA MAINITULLA TAVALLA SAATTAA ALTISTAA KÄYTTÄJÄN TURVALLISUUSLUOKAN 1 YLITTÄVÄLLE NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE.

VARNING - OM APPARATEN ANVÄNDS PÅ ANNAT SÄTT ÄN I DENNA BRUKSANVISNING SPECIFICERAS. KAN ANVÄNDAREN UTSÄTTAS FÖR OSYNLIG LASERSTRÅLNING, SOM ÖVERSKRIDER GRÄNSEN FÖR LASERKLASS 1.

VARO ! Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle. Älä katso säteeseen.
VARNING! Osynlig laserstralning när denna del är öppnad och spärren är urkopplad. Betrakta ej strälen.

Precaution to be taken when replacing and servicing the laser pickup.
The following precautions must be observed during servicing to protect your eyesagainst exposure to the laser.

Warning of possible eye damage when repairing:
If the AC adaptor or batteries are connected when the top houising (disc cover) of the unit is removed, and the PLAY key is pressed, the laser will light up during docus access (2-3 seconds). (Fig. 2-1) During the operation, the laser will lesk from the opening btween the magnetic head and the mechanical chassis (Fig. 2-2). In order to protect your eyes, you most not look at the laser durnd repaor. Before repaoring be sure to disconnect the AC adaptor and remove the batteries.

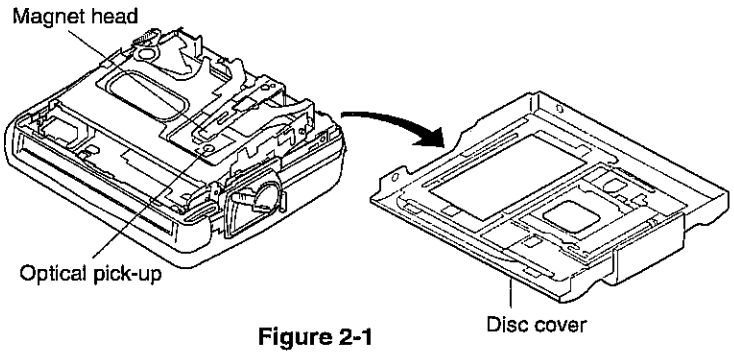


Figure 2-1

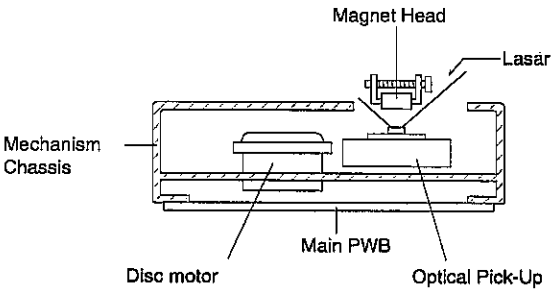


Figure 2-2

FOR A COMPLETE DESCRIPTION OF THE OPERATION OF THIS UNIT, PLEASE REFER TO THE OPERATION MANUAL.

SPECIFICATIONS

● General

Power source: (Except for UK)
DC 3.6 V (rechargeable lithium-ion battery x 1)
DC 5 V (AC adaptor)
AC 220 - 230V, 50/60 Hz
DC 3V: Separately available battery case, AD-M70BC (commercially available, "AA" size, alkaline battery x 2)
DC 4.5V: Separately available car adaptor, AD-CA20X (for cars with a 12-24V DC negative earth electrical system)

Power source: (For UK)
DC 3.6 V (rechargeable lithium-ion battery x 1)
DC 5 V (AC adaptor)
AC 230 - 240V, 50/60 Hz
DC 3V: Separately available battery case, AD-M70BC (commercially available, "AA" size, alkaline battery x 2)
DC 4.5V: Separately available car adaptor, AD-CA20X (for cars with a 12-24V DC negative earth electrical system)

Power consumption: 7 W (AC adaptor)
Output power: RMS; 20 mW (10 mW + 10mW) (0.2% T.H.D.)
Charging time: Approx. 3.0 hours (When using the AC adaptor included with the unit)

Battery life:

When using the rechargeable battery (fully charged) included with the unit	When using two, commercially available, high capacity, "AA" size, alkaline batteries (in the separately available battry case)	When using two, commercially available, high capacity, "AA" size batteries with the rechargeable battery (fully charged)
Continuous recording: Approx. 4.5 hours	Continuous recording: Approx. 4 hours	Continuous recording: Approx. 8.5 hours
Continuous play: Approx. 6.5 hours	Continuous play: Approx. 8 hours	Continuous play: Approx. 14.5 hours

- The continuous recording time is for analogue input when the volume level is set to "VOL 0".
- The continuous play time shows the value when the volume level is set to "VOL 15".
- The above values are the standard values when the unit is charged and used at an ambient temperature of 20°C.
- The operating time when using alkaline batteries may be different, depending on the type and manufacturer of the batteries, and on the operating temperature.

Input sensitivity:

Recording level	Reference input level	Input impedance
MIC H	0.25 mV	10 k ohms
MIC L	2.5 mV	10 k ohms
LINE	100 mV	20 k ohms

Output level:

	Specified output	Maximum output level	Load impedance
Headphones	—	10 mW + 10 mW	32 ohms
LINE	300mV (-12dB)	—	50 kohms

Dimensions: Width: 87.0 mm (3-7/16")
Height: 29.4 mm (1-3/16")
Depth: 81.5 mm (3-7/32")
Weight: MD-MS701H2: 224 g (0.50 lbs.) with rechargeable battery
MD-MS702H2: 227 g (0.50 lbs.) with rechargeable battery
Input socket: Line/Mic/optical digital, microphone (powered by the main unit)
Output socket: Headphones (impedance: 32 ohms)/ remote control unit

● MiniDisc Recorder

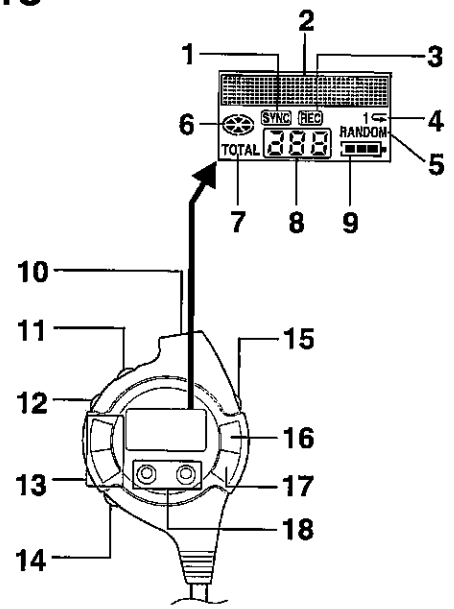
Type: Portable MiniDisc recorder
Signal readout: Non-contact, 3-beam semi-coductor laser pick-up
Audio channels: Stereo 2 channels/monaural (long-play mode) 1 channel
Frequency response: 20 - 20,000 Hz (± 3 dB)
Rotation speed: Approx 400 - 900 rpm
Error correction: ACIRC (Advanced Cross Interleave Reed-Solomon Code)
Coding: ATRAC (Adaptive TRansform Acoustic Coding), 24-bit computed type
Recording method: Magnetic modulation overwrite method
Sampling frequency: 44.1 kHz (32 kHz and 48 kHz signals are converted to 44.1 kHz, and then recorded.)
Wow and flutter: Unmeasurable (less than ±0.001% W.peek)

Specifications for this model are subject to change without prior notice

NAME OF PARTS

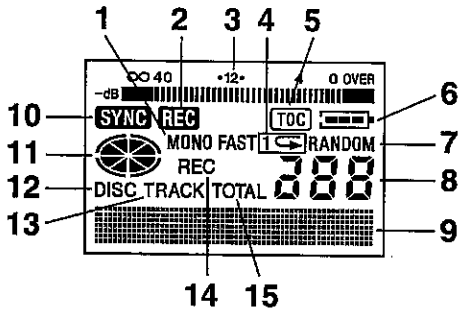
■ Remote Control Unit

1. Synchro Recording Indicator
2. Character/Time Information Indicator
3. Record Indicator
4. Repeat Indicator: ⇄
5. Random Indicator
6. Disc Mode Indicator
7. Total Track Number Display
8. Track Number Indicator
9. Battery Indicator: ▭
10. Headpones Socket
11. Hold Switch
12. Play Mode Button
13. Volume Buttons: +, -
14. Bass Button
15. Display Button
16. Play/Pause Button: ▶II
17. Stop/Power Off Button: ■
18. Fast Reverse/Fast Forward Buttons: I◀◀ / ▶▶I

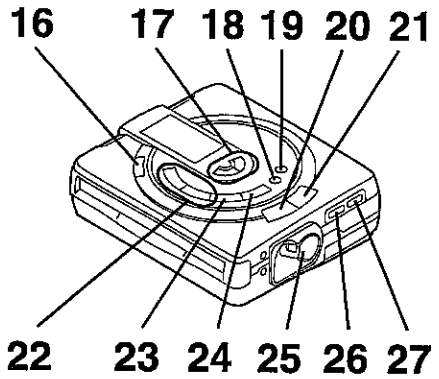


■ Main Unit

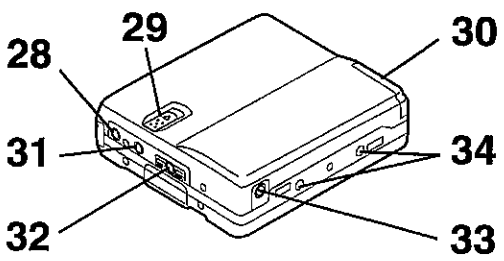
1. Monaural Long-Play Mode Indicator
2. Record Indicator
3. Level Meter
4. Repeat Indicator: ⇄
5. TOC Indicator
6. Battery Indicator: ▭
7. Random Indicator
8. Track Number Indicator
9. Character/Time Information Indicator
10. Synchro Recording Indicator
11. Disc Mode Indicator
12. Disc Name Indicator
13. Track Name Indicator
14. Remaining Recording Time Indicator
15. Total Track Number Display



16. Record/Track Mark Button
17. Volume/Name Select Buttons: +, -
18. Display/Lowercase Characters Button
19. Character Button
20. Stop/Power Off/Charge Button: ■ /:OFF
21. Play/Pause Button: ▶II
22. Fast Reverse/Fast Forward/Recording Level Control/Cursor Buttons: I◀◀ / ▶▶I
23. Enter/Fast Play/Synchro Button
24. Editer/Auto Mark/Time Mark Button
25. Eject Lever
26. Bass/Delete Button
27. Mode/Insert Button

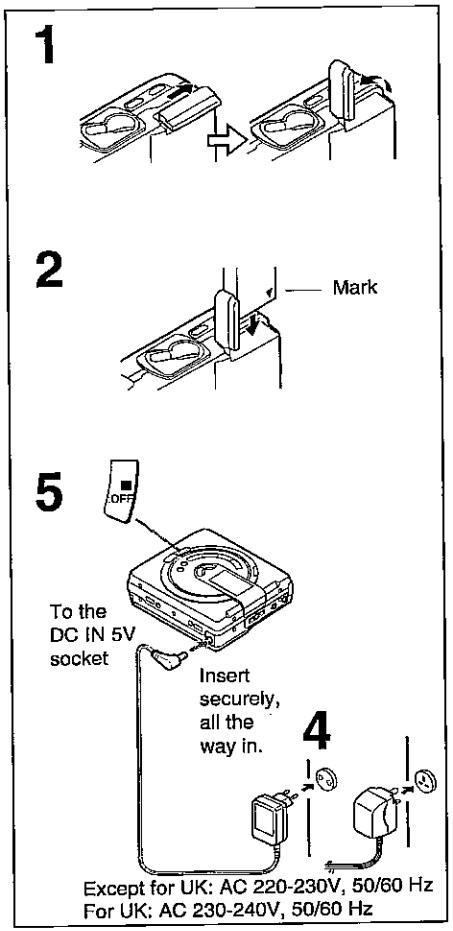


28. Microphone Input Socket
29. Hold Switch
30. Rechargeable Lithium-Ion Battery Compartment
31. Optical/Line Input Soket
32. Headphones Soket
33. 5V DC Input Sokets
34. Battert Case Connection Terminals



POWER SOURCE

This unit can be used with 4 different power sources: a rechargeable battery, an AC adaptor, a separately available battery case (AD-M70BC), and a separately available car adaptor (AD-CA20X).



■ Rechargeable battery power

When the rechargeable battery is used for the first time or when you want to use it after a long period of disuse, be sure to charge it fully.

1 Open the rechargeable battery compartment cover.

2 Insert the rechargeable battery.
- Insert the side with the arrow first.

3 Close the rechargeable battery compartment cover.

4 Plug the AC adaptor into the AC socket, and then insert the plug on the AC adaptor lead into the DC IN 5V socket.

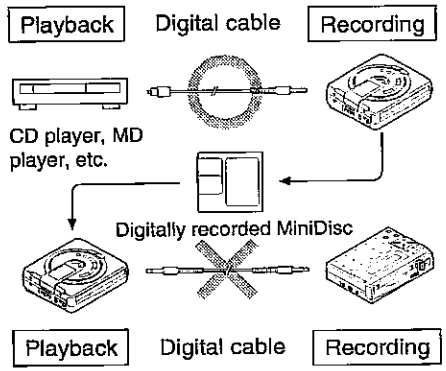
5 Press the ■/:OFF button twice to begin charging.
- "▭" will appear, and the battery will begin charging.
- Battery charging will be complete in 3.0 hours. When the charging is complete, "▭" will go out.

Notes:
- After charging has been completed, the AC adaptor may be left connected. (For example, when charging at night)
- The battery will not be charged whenever the power to the main unit is turned on.
- If the AC adaptor is removed from the main unit or from the AC socket whilst charging, "▭" will not disappear for about 1 minute. This is normal.
- Do not force open the rechargeable battery cover too wide.
- Do not fit the separately available battery case when charging the internal battery.

RECORDING USING A SEPARATELY AVAILABLE DIGITAL CABLE

There are cases where digital recording may be impossible.
In the following cases digital recording is impossible, even if you are using digital cables.

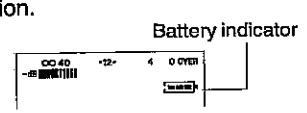
When you attempt to make a new digital recording from a track that was digitally recorded on a MiniDisc
- MiniDiscs are designed so that only first generation digital copies can made, further digital copies are prevented by the SCMS (Serial Copy Management System).



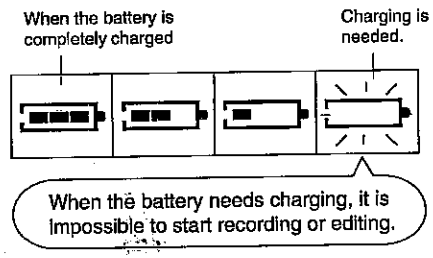
CONVENIENT OPERATION OF THE UNIT

■ Checking the remaining amount of battery charge

The remaining amount of battery charge is shown by the battery indicator (▭) during operation.



< How to read the battery indicator >


When the battery is completely charged
Charging is needed.
When the battery needs charging, it is impossible to start recording or editing.

- When the battery is completely discharged, the whole battery indicator will flash. Recharge the battery or replace the alkaline batteries with new ones.
- When the battery has run completely out, "BATT EMPTY" (main unit) and "Lo BATT" (remote control unit) will appear. Then, the power will be disconnected automatically.

Notes:
- When the AC adaptor included with this unit or a separately available car adaptor is used, the battery indicator will not be shown.
- The number of bars shown in the battery indicator may increase or decrease, depending on the operation being performed. This is normal.
- When the rechargeable battery and the alkaline batteries are used at the same time, the rechargeable battery is used first, and then the alkaline batteries.
  Since the battery indicator shows the remaining amount of the particular battery being used, the number of bars will increase when the unit switches to the alkaline batteries.

TROUBLESHOOTING

■ Moisture condensation

In the following cases, condensation may form inside the unit.

- Shortly after turning on a heater.
- When the unit is placed in a room where there is excessive steam or moisture.
- When the unit is moved from a cool place to a warm place.

When the unit has condensation inside, the disc signals cannot be read, and the unit may not function properly.

- If this happens, remove the disc. The condensation should evaporate in approximately 1 hour. The unit will then function properly.

Many potential "problems" can be resolved by the owner without calling a service technician. If something seems to be wrong with this product, check the following before calling your authorised SHARP dealer or service centre.

PROBLEM	CAUSE
The unit does not turn on.	● Is the AC adaptor disconnected? ● Is the battery exhausted? ● Is the unit in the safety mode? ● Has condensation formed inside the unit? ● Is the unit being influenced by mechanical shock or by static electricity?
No sound is heard from the headphones.	● Is the volume set too low? ● Is the remote control unit or the headphones plugged in? ● Are you trying to play a MiniDisc with data on it instead of a MiniDisc containing music?
When the operation buttons are pressed, the unit does not respond.	● Is the unit in the safety mode? ● Is the battery exhausted? ● Is the remote control unit plug or the headphone plug inserted firmly?
Some sounds are skipped.	● Is the battery exhausted? ● Is the unit being subjected to excessive vibration?
The MiniDisc cannot be ejected.	● Has the track number or character information been written on the disc yet? ● Is the unit in the recording or editing mode?
Recording and editing are impossible.	● Is the MiniDisc protected against accidental erasure? ● Is the unit connected properly to the other equipment? ● Is the AC adaptor unplugged or did a power failure occur whilst recording or editing? ● Is the unit in the safety mode?

■ If trouble occurs

When this product is subjected to strong external interference (mechanical shock, excessive static electricity, abnormal supply voltage due to lightning, etc.) or if it is operated incorrectly, it may malfunction. If such a problem occurs, do the following:

1. Unplug the AC adaptor from the AC socket.
2. Remove the battery.
3. Leave the unit completely unpowered for approximately 30 seconds.
4. Plug the AC adaptor back into the AC socket and retry the operation.

If strange sounds, smell or smoke come out of the unit or an object is dropped into the unit, remove the AC adaptor from the AC socket immediately and contact an authorised Sharp service centre.

MINIDISC SYSTEM LIMITATIONS

MiniDiscs are recorded using a different system than is used for cassette tapes or DAT recordings. Therefore, the following conditions may be encountered, depending on how the disc has been recorded or edited. These are due to system limitations, and should be considered normal.

Even if the maximum recording time of a MiniDisc has not been reached, "DISC FULL" or "TOC FULL" may be displayed.	When the number of tracks used reaches the limit, regardless of the remaining recording time, further recording will be impossible. (Maximum number of tracks: 254) If a MiniDisc has been recorded or edited repeatedly or if a MiniDisc has scratches on it, it may not be possible to record the maximum number of tracks on it.
Even if the number of tracks and the recording time have not reached the limit, "DISC FULL" may be displayed.	If there are scratches on a disc, the unit will automatically avoid recording in those areas. The recording time will be reduced.
Even if several short tracks are erased, the remaining recording time may not show an increase.	When the remaining recording time of a disc is displayed, short tracks less than 8 seconds long may not be included in the total.
Two tracks may not be combined in editing.	For MiniDiscs on which repeated recording and editing operations were performed, the COMBINE function may not work.
The total of the recorded time and time remaining on a disc may not add up to the maximum possible recording time.	A cluster (about 2 seconds) is normally the minimum unit of recording. So, even if a track is less than 2 seconds long, it will use about 2 seconds of space on the disc. Therefore, the time actually available for recording may be less than the remaining time displayed. If there are scratches on discs, those sections will be automatically avoided (no recording will be placed in those sections). Therefore, the recording time will be reduced.
When recorded tracks are played back using the cue and review operations, some sounds may be skipped.	For MiniDiscs on which repeated recording and editing were performed, some sounds may be skipped whilst cueing and reviewing.
A track number can be created in the middle of a track.	If there are scratches or dust on a MiniDisc, the track numbers following that track will be increased by one.

ERROR MESSAGES

Error messages	Meaning	Remedy
BATT EMPTY	● The battery run down.	● Charge the rechargeable battery or replace the alkaline batteries (or use the AC adaptor for power).
BLANK DISC	● Nothing is recorded.	● Replace the disc with a recorded disc.
Can't COPY	● No copy can be made because of the SCMS copyright system.	● Record using the analogue cable.
Can't EDIT	● A track cannot be edited.	● Change the stop position of the track and then try editing it.
Can't REC	● Recording cannot be performed correctly due to vibration or shock in the unit.	● Re-record or replace it with another recordable disc.
Can't WRITE	● Editing is impossible.	● Check the number of tracks.
DEFECT	● The disc is scratched.	● If the sound you hear is not right, try recording again. ● Replace the disc with another recordable disc.
Din UNLOCK	● Poor connection of the digital cable.	● Connect the digital cable securely.
DISC ERROR	● The disc is damaged.	● Reload the disc or replace it.
DISC FULL	● The disc is out of recording space.	● Replace it with another recordable disc.
HOLD	● The unit is in the safety mode.	● Return the HOLD switch to its original position.
LOCKED LOCK ERROR	● The EJECT lever was moved during recording or editing.	● Turn off the power and remove the MiniDisc.
NO DISC	● A disc has not been loaded.	● Load a disc.
PB DISC PROTECTED	● The disc is write protected. ● You tried to record on a playback-only disc.	● Move the write protection knob back to its original position. ● Replace it with a recordable disc.
POWER ?	● Improper power is being supplied.	● Use one of the specified power sources.
SORRY	● Since a track number is currently being located or written to, the unit cannot accept your command.	● Wait for a while and try the operation again.
SYSTEM ERR	● You have come to the conclusion that the unit is out of order.	● To have it repaired, go to the distributor where you purchased the unit.
TEMP OVER	● The temperature is too high.	● Turn off the power, and wait for a while.
TOC ERROR	● A large portion of the disc has been damaged.	● Replace it with another recorded disc.
TOC FULL	● There is no space left for recording character information (track names, disc names, etc.).	● Replace it with another recordable disc.
Tr. Protect	● The track has been protected from being erased.	● Edit the track with the device on which it was recorded.
U TOC ERROR	● A large portion of the disc has been damaged. ● There is an error in the recorded signal.	● Replace it with another recorded disc. ● Erase all of the signal errors, and then try recording again.
? DISC	● A disc which contains data other than music was played. ● There is an error in the signal from the disc.	● A disc which contains non-music data cannot be played. ● Replace it with another recorded disc.

DISASSEMBLY

Caution on Disassembly

Follow the below-mentioned notes when disassembling the unit and reassembling it, to keep it safe and ensure excellent performance:

1. Take the battery and minidisc out of the unit.
2. When disassembling the machine, be sure to withdraw the power plug from the socket in advance.
3. When disassemble the parts, remove the nylon band or wire holder as necessary.
   To assemble after repair, be sure to arrange the wires as they were.
   If a screw of different length is fitted to the MD mechanism (the screw of the part to be fitted to the MD mechanism chassis), it may contact the optical pickup, resulting in malfunction.
4. When repairing, pay due attention to electrostatic charges of IC.

STEP	REMOVAL	PROCEDURE	FIGURE
1	Bottom Cabinet	1. Open the battery Lid. 2. Screw ..... (A1) x6	8-1
2	Top Cabinet	1. Screw ..... (B1) x4 2. Flat Cable ..... (B2) x2	8-1 8-2
3	Main PWB	1. Screw ..... (C1) x2 2. Flat Cable ..... (C2) x3	8-2
4	Mechanism Unit	1. Lift the left side, and remove in the arrow direction.	8-3

Caution:

1. Handle carefully the main PWB and flexible PWB.
   After removing the flexible PWB (*1) for optical pickup from the connector, wrap the front end of flexible PWB in conductive aluminum foil so as to protect the optical pickup from electrostatic damage.
2. When removing the mechanism from the cabinet or when installing it, it is advisable to
   rotate the unit lock plate to lower the holder section.

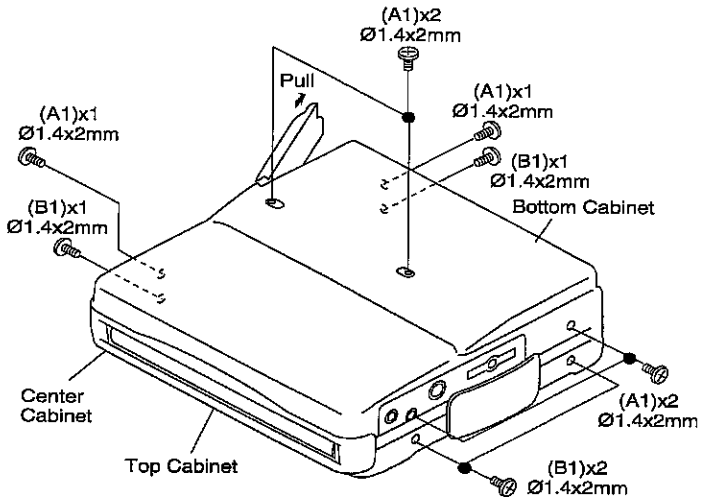


Figure 8-1

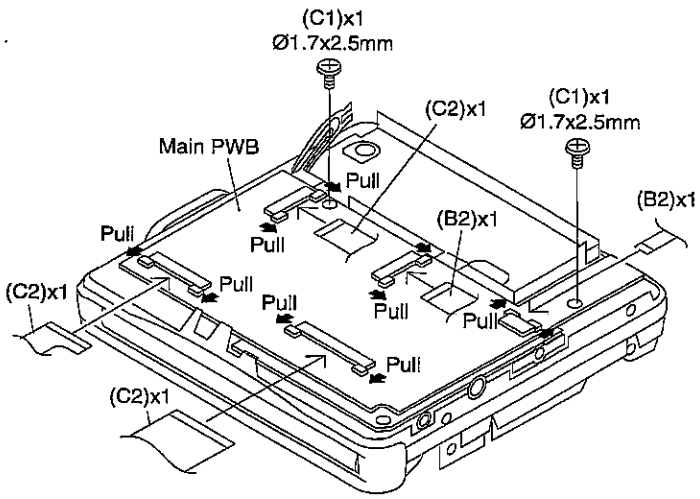


Figure 8-2

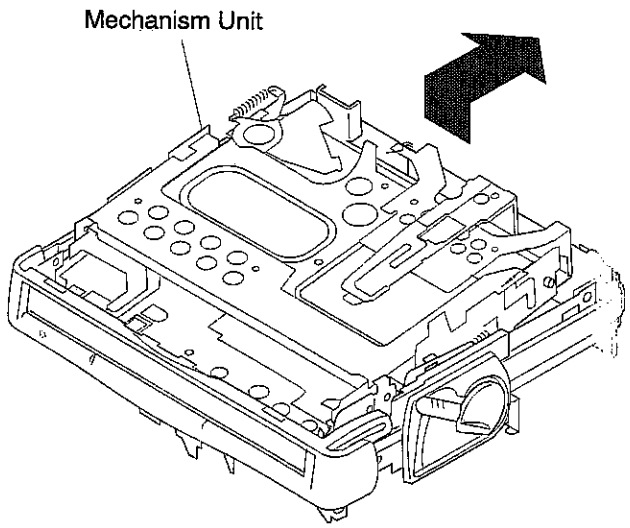


Figure 8-3

REMOVING AND REINSTALLING THE MAIN PARTS

Remove the mechanism according to the disassembling methods 1 to 4. (See Page 8.)

How to remove the spindle motor (See Fig. 9-1.)

1. Remove the solder joint (A1) x 1 of flexible PWB.
2. Remove the screws (A2) x 3 pcs. and remove the spindle motor.

How to remove the lift motor (See Fig. 9-2.)

1. Remove the solder joint (B1) x 2 of lift motor lead wire.
2. Remove the stop washer (B2) x 1 pc., and remove the drive gear (B3) x 1 pc.
3. Remove the screw (B4) x 1pc, and remove the lift motor.

Note:
Take care so that the motor gear is not damaged.
(If the gear is damaged, noise is raised in search mode.)

How to remove the sled motor (See Fig. 9-3.)

1. Remove the solder joint (C1) x 2 of sled motor lead wire.
2. Remove the screws (C2) x 2 pcs, and remove the sled motor.

Note:
Take care so that the motor gear is not damaged.
(If the gear is damaged, noise is raised in search mode.)

How to remove the magnetic head (See Fig. 9-4.)

1. Remove the screws (D1) x 2 pcs.
2. Remove the soldering joint (D2) x2 pcs.

Note:
Mount carefully so as not to damage the magnetic head.

How to remove the optical pickup unit (See Fig. 9-5.)

1. Remove the screw (E1) x 1 pc.

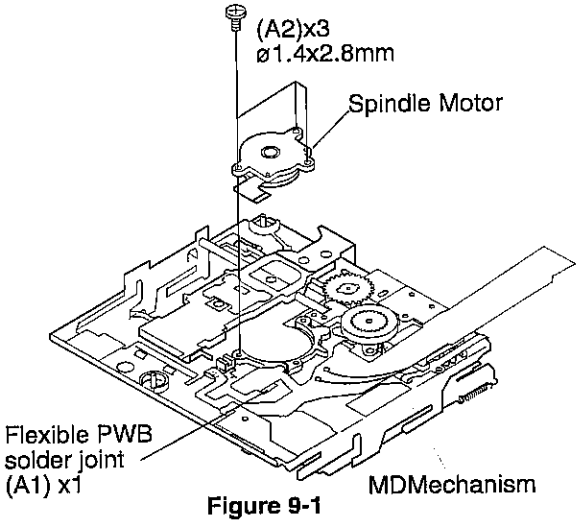


Figure 9-1

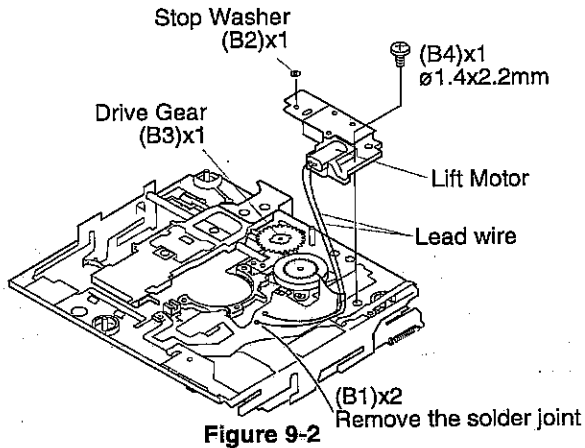


Figure 9-2

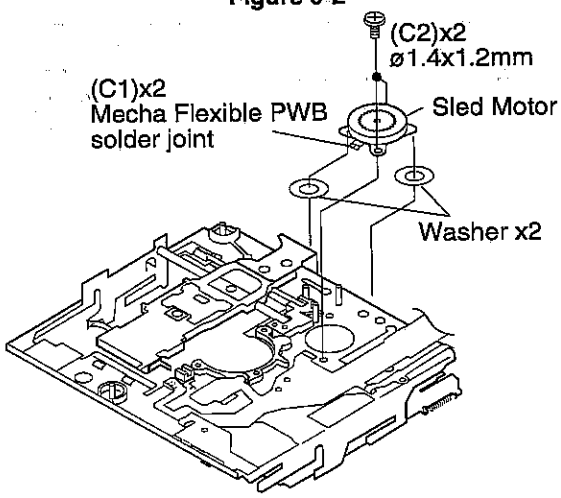


Figure 9-3

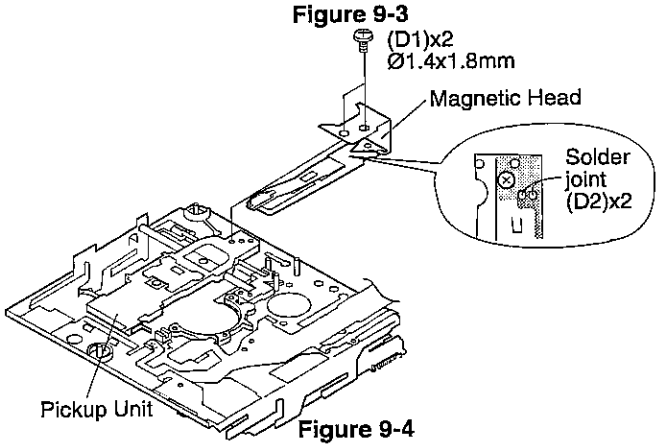


Figure 9-4

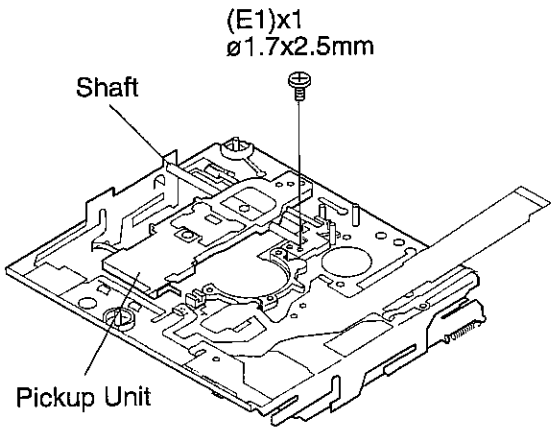


Figure 9-5

● E²-PROM DATA LIST

TEMP setting

Item display		Set values
T M _ _	○○	Calculate values

BASS setting

Item display		Set values
B S 1 _	○○	02H
B S 2 _	○○	A4H
B S 3 _	○○	C4H

Fucus setting

Item display		Set values
F G _ _	○○	63H
F F 1 _	○○	70H
F F 2 _	○○	F0H
F Z H _	○○	EDH
F L n _	○○	09H
D J G _	○○	14H
F R V _	○○	AAH
F P f _	○○	88H
F L V _	○○	19H
W T f _	○○	20H
F S S _	○○	02H

Tracking setting

Item display		Set values
T G _ _	○○	26H
T F 1 _	○○	70H
T F 2 _	○○	E0H
T F S _	○○	00H
T B o _	○○	2BH
T B t _	○○	17H
T K o _	○○	2BH
T K t _	○○	19H
T D o _	○○	67H
T D t _	○○	2AH
S C o _	○○	00H
S C t _	○○	40H
S C m _	○○	53H
D B O _	○○	00H
C L p _	○○	12H
C L r _	○○	24H
W T m _	○○	E0H

Spindle setting

Item display		Set values
S P G _	○○	14H
S P i _	○○	AAH
S P m _	○○	79H
S P o _	○○	4FH
S P 1 _	○○	10H
S P 2 _	○○	60H
S P 3 _	○○	F2H
S P 4 _	○○	F2H
S P 5 _	○○	10H
S P D _	○○	61H
S P R _	○○	C4H

Sled setting

Item display		Set values
S L G _	○○	94H
S L 2 _	○○	30H
S L M _	○○	4FH
S L V _	○○	36H
S K k _	○○	43H
S K t _	○○	40H
S K m _	○○	43H

ADJ. SET setting

Item display		Set values
C O K _	○○	A0H
F A T _	○○	C0H
T A T _	○○	3EH
C A T _	○○	20H
F A B _	○○	00H

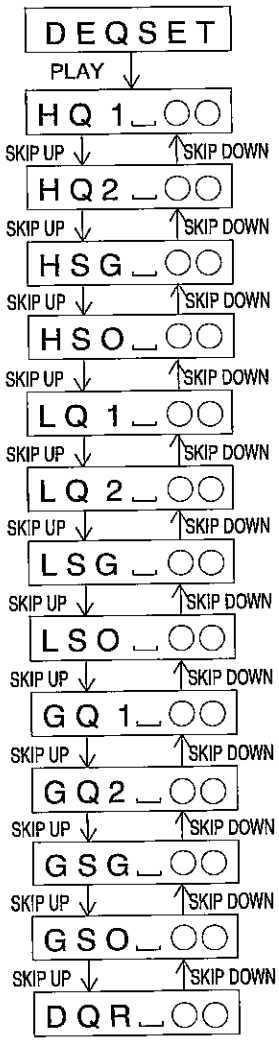
DEQ. SET setting

Item display		Set values
H Q 1 _	○○	90H
H Q 2 _	○○	90H
H S G _	○○	11H
H S O _	○○	FDH
L Q 1 _	○○	90H
L Q 2 _	○○	90H
L S G _	○○	11H
L S O _	○○	00H
G Q 1 _	○○	98H
G Q 2 _	○○	84H
G S G _	○○	11H
G S O _	○○	00H
G Q R _	○○	00H

Control setting

Item display		Set values
C T 0 _	○○	49H
C T 1 _	○○	C8H
P W L _	○○	00H
R C 0 _	○○	C0H
R C 1 _	○○	FEH
S Y C _	○○	A6H
D R 1 _	○○	A0H
D R 2 _	○○	A6H
I N 1 _	○○	D4H
I N 2 _	○○	67H
C T R _	○○	6DH
C T 2 _	○○	94H
C T 3 _	○○	33H
C T 4 _	○○	64H
C T 5 _	○○	74H
C T 6 _	○○	08H
C T 7 _	○○	42H
S P M _	○○	00H
M S L _	○○	00H
R S L _	○○	00H

Digital EQ Setting



: Digital EQ setting menu

: High-reflection pit section Digital EQ tap factor A, D
OO: setting

: High-reflection pit section Digital EQ tap factor B, C
OO: setting

: High-reflection pit section Autolevel slicer gain
OO: setting

: High-reflection pit section Autolevel slicer slice level offset
OO: setting

: Lows-reflection pit section Digital EQ tap factor A, D
OO: setting

: Lows-reflection pit section Digital EQ tap factor B, C
OO: setting

: Low-reflection pit section Autolevel slicer gain
OO: setting

: Low-reflection pit section Autolevel slicer slice level offset
OO: setting

: Low-reflection groove section digital EQ tap factor A, D
OO: setting

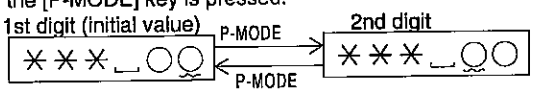
: Low-reflection groove section digital EQ tap factor B, C
OO: setting

: Low-reflection groove section Autolevel slicer gain
OO: setting

: Low-reflection groove section Autolevel slicer slice level offset
OO: setting

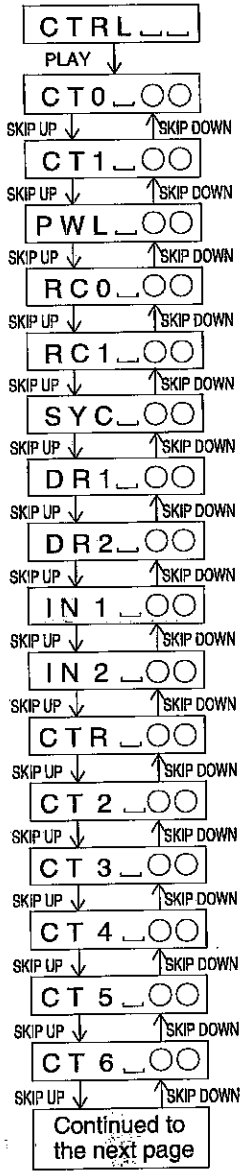
: Digital EQ-related other settings
OO: setting

* When the "STOP" button is pressed in specific menu, the TEST MODE STOP state is set.
* In specific state pressing the [DISP] key causes change to "focus setting menu".
* In the specific setting display state the setting change digit changes when the [P-MODE] key is pressed.



* In the specific state the setting changes in the range of "0h to Fh" when the [VOL UP/DOWN" key is pressed.

Control Setting (record/playback machine)



: Control setting menu

: Play start SD number, EEPROM version
OO: setting

: REC superposition, EL existence/nonexistence, move start minimum number, high-speed jump over-run
OO: setting

: DC-IN existence/nonexistence judgment level, AC adapter judgment level, built-in battery full judgment level
OO: setting

: Recording bit distribution parameter 0
OO: setting

: Recording bit distribution parameter 1
OO: setting

: Syncro level selection
OO: setting

: Dry cell exhaustion detection level setting 1
OO: setting

: Dry cell exhaustion detection level setting 2
OO: setting

: Built-in battery exhaustion detection level setting 1
OO: setting

: Built-in battery exhaustion detection level setting 2
OO: setting

: Intermittent servo restart accumulation sector number setting
OO: setting

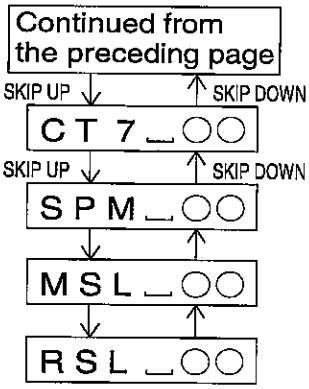
: Control setting 2
OO: setting

: Control setting 3
OO: setting

: Control setting 4
OO: setting

: Control setting 5
OO: setting

: Control setting 6
OO: setting



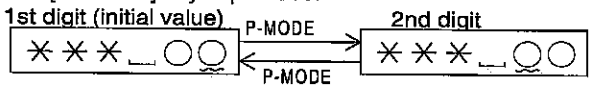
: Control setting 2
○○: setting

: Special mode selection data (unprotect area)
○○: setting

: Monitor selection data (unprotect area)
○○: setting

: Control-related other setting data (unprotect area)
○○: setting

* When the "STOP" button is pressed in specific menu, the TEST MODE STOP state is set.
* In specific state pressing the [DISP] key causes change to "focus setting menu".
* In the specific setting display state the setting change digit changes when the [P-MODE] key is pressed.



* In the specific state the setting changes in the range of "0h to Fh" when the [VOL UP/DOWN" key is pressed.
* To monitor the EFM output (eye pattern) at TP139, change "MSL" from 00 to 80. The value of "MSL" is set to 00 when shipped.

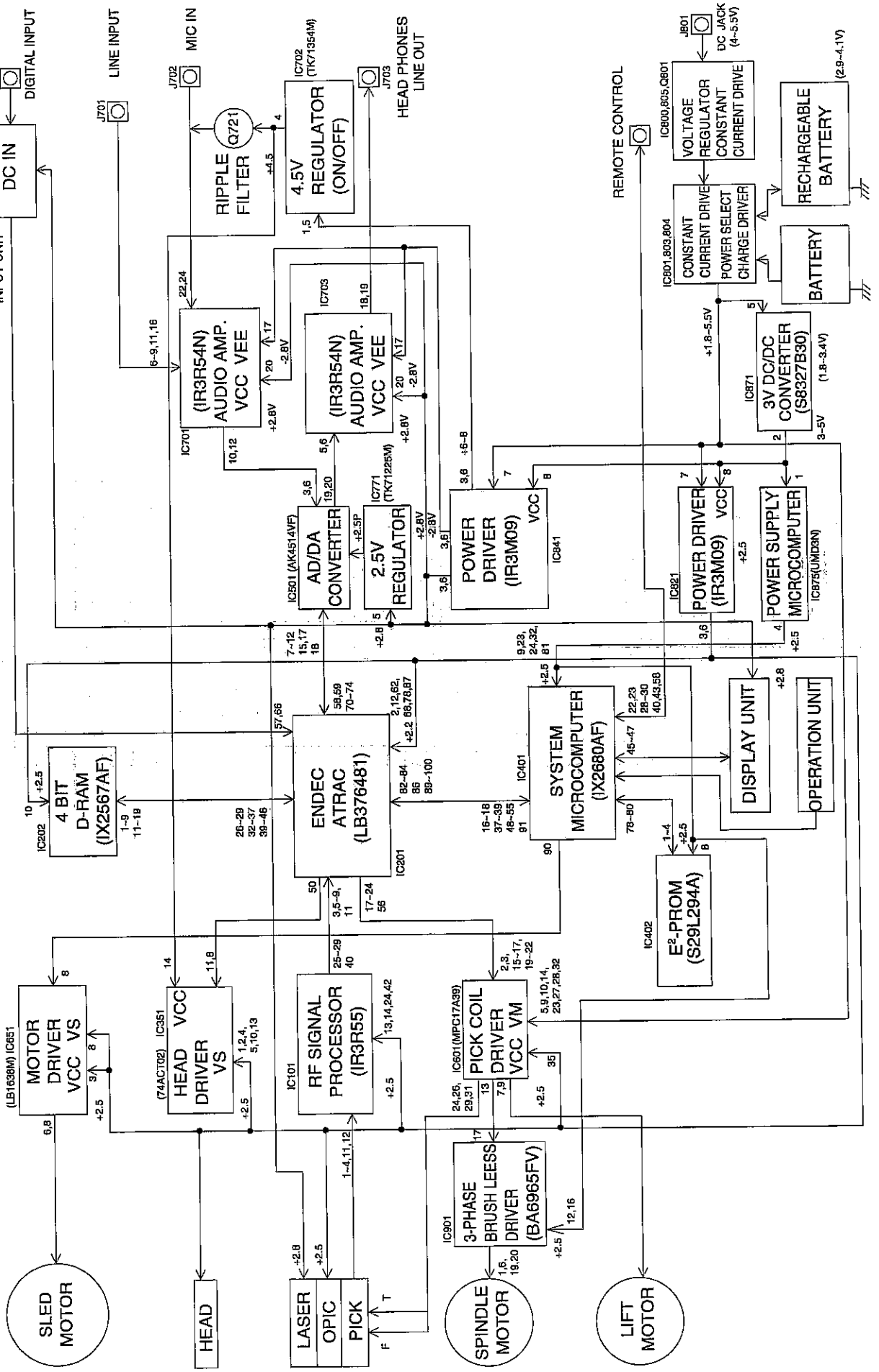


Figure 13 BLOCK DIAGRAM

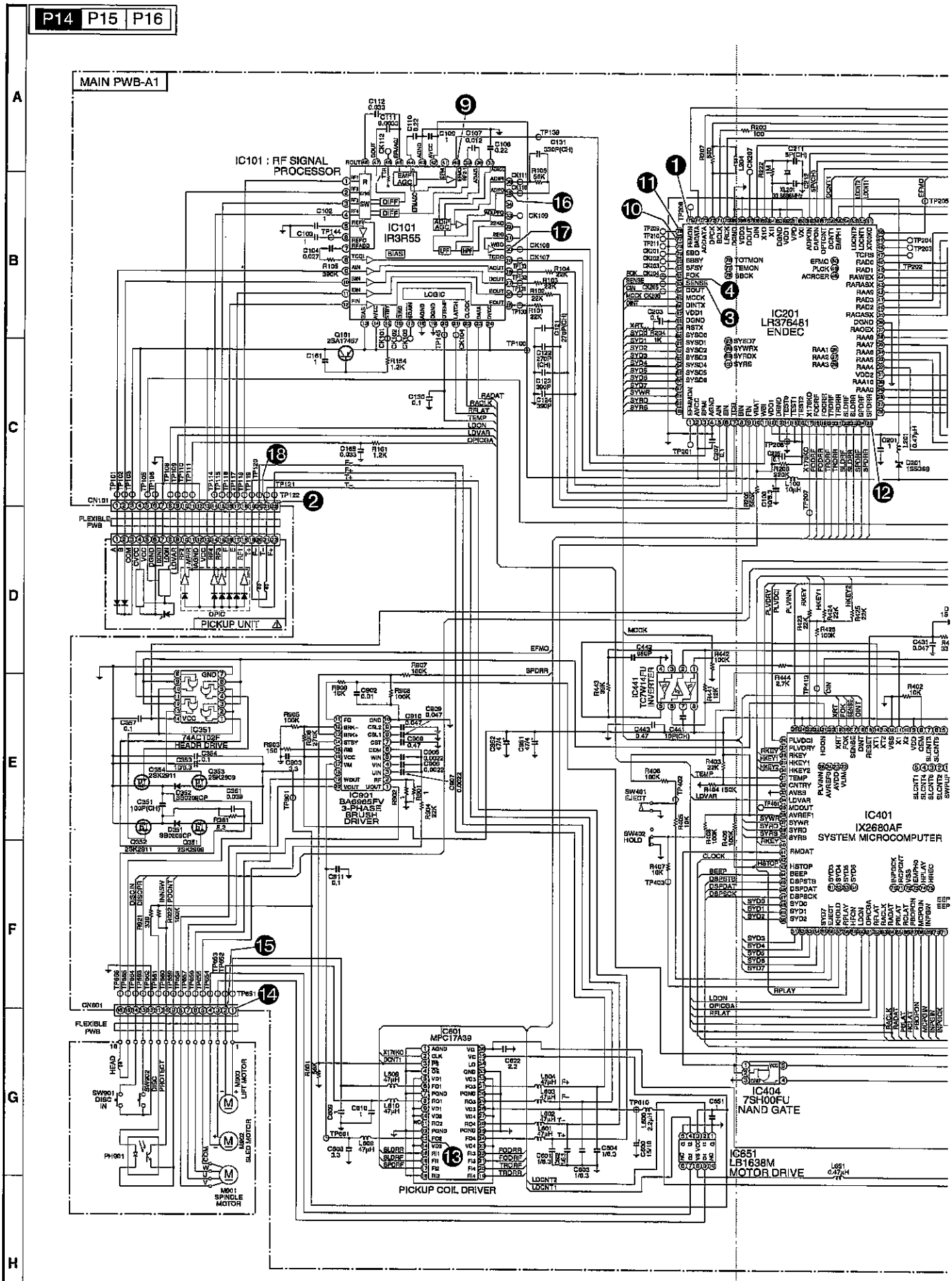
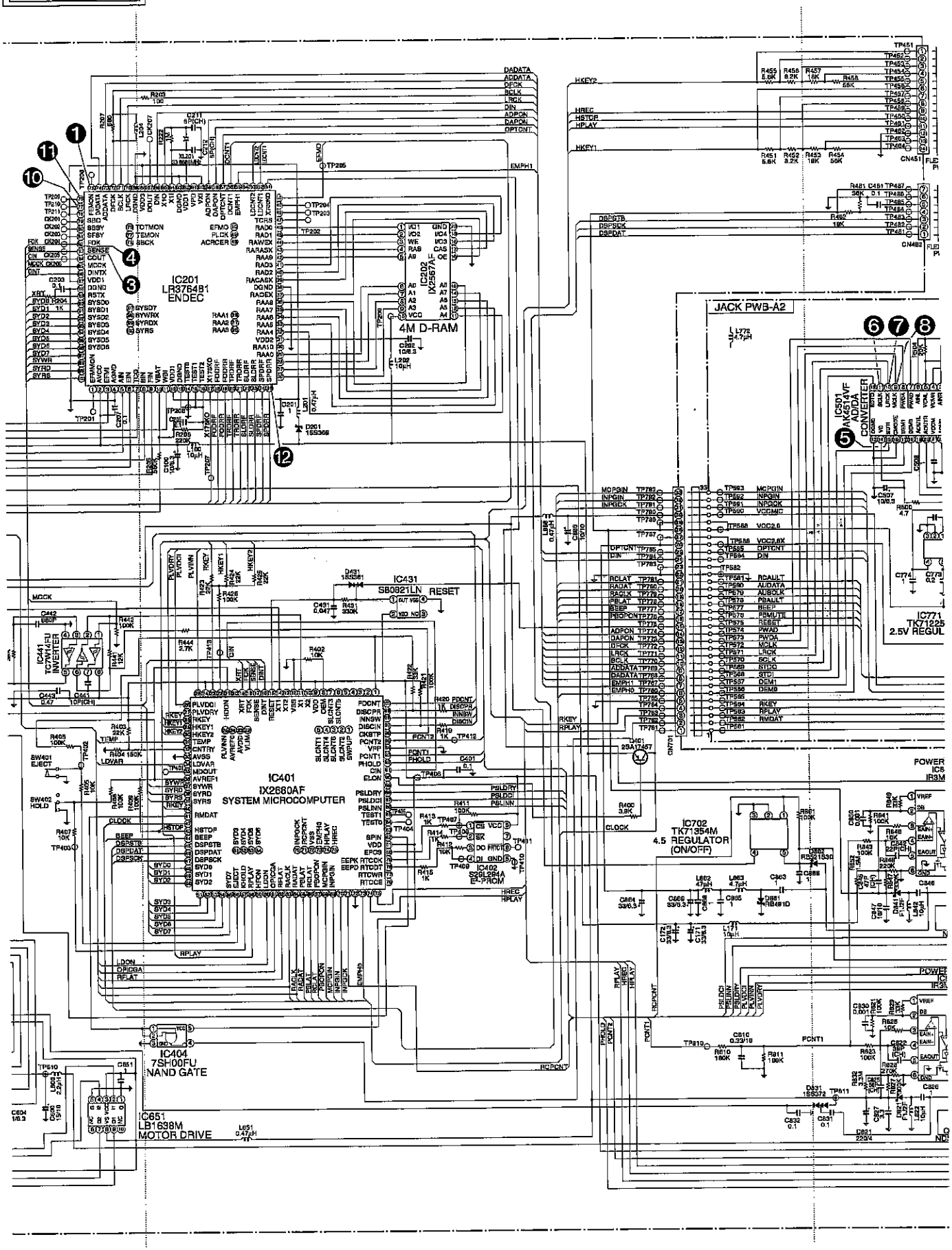


Figure 14 SCHEMATIC DIAGRAM (1/3)

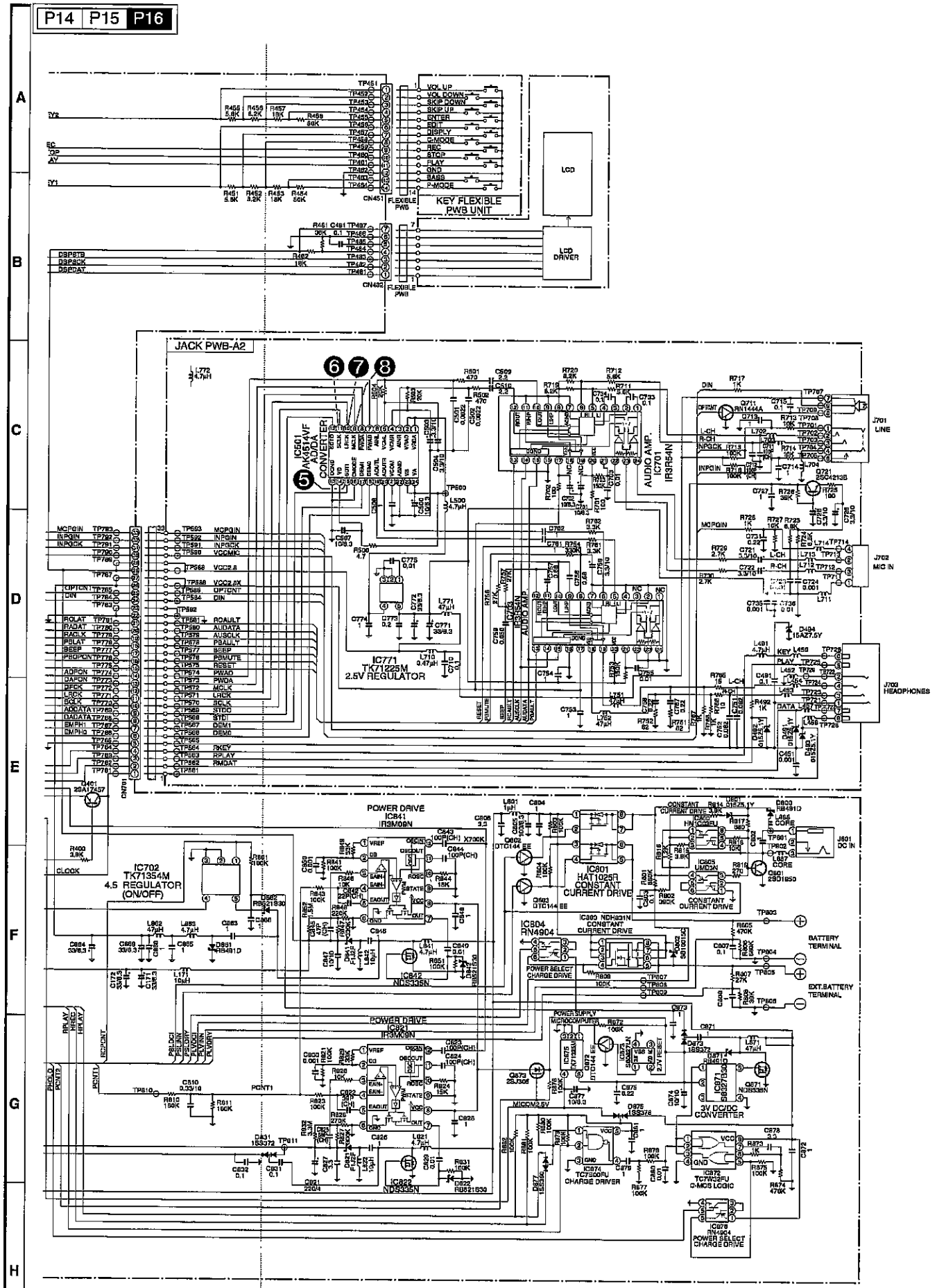
P14 P15 P16



The numbers ❶ to ⓲ are waveform numbers shown in page 39 (MD-MS701H/MS70H).

7	8	9	10	11	12

Figure 15 SCHEMATIC DIAGRAM (2/3)



NOTES ON SCHEMATIC DIAGRAM can be found on page 23.
The numbers ❶ to ⑱ are waveform numbers shown in page 39 (MD-MS701H/MS702H).

Figure 16 SCHEMATIC DIAGRAM (3/3)

VOLTAGE

IC101

PIN NO.	VOLTAGE
1	0.7V
2	0.7V
3	0.7V
4	0.7V
5	1.26V
6	1.26V
7	0.7V
8	1.26V
9	1.26V
10	1.26V
11	1.26V
12	1.26V
13	2.52V
14	2.52V
15	0.18V
16	2.52V
17	2.52V
18	0V
19	0V
20	1.46V
21	2.52V
22	0V
23	0V
24	2.51V
25	1.26V
26	1.26V
27	1.26V
28	1.26V
29	1.26V
30	1.8V
31	1.26V
32	1.26V
33	1.26V
34	0V
35	1.26V
36	1.26V
37	0V
38	1.26V
39	1.26V
40	1.26V
41	1.26V
42	2.52V
43	0V
44	0V
45	1.0V
46	1.0V
47	1.0V
48	1.0V

IC201

PIN NO.	VOLTAGE	PIN NO.	VOLTAGE
1	1.0V	51	0V
2	2.5V	52	0V
3	1.27V	53	0V
4	0V	54	0V
5	1.27V	55	0V
6	1.27V	56	2.15V
7	1.27V	57	0V
8	1.27V	58	0V
9	1.26V	59	0V
10	2.2V	60	0V
11	1.43V	61	0.8V
12	2.15V	62	2.15V
13	0V	63	0V
14	0V	64	1.0V
15	0V	65	1.0V
16	0V	66	2.3V
17	1.0V	67	2.15V
18	0V	68	2.15V
19	0V	69	0V
20	0V	70	1.0V
21	0V	71	1.0V
22	0V	72	0V
23	0V	73	0V
24	0V	74	0V
25	0V	75	0V
26	0.6V	76	0V
27	0.6V	77	0V
28	0.6V	78	2.15V
29	1.4V	79	0V
30	0.6V	80	2.15V
31	2.5V	81	1.0V
32	2.5V	82	2.15V
33	0.6V	83	0V
34	0.6V	84	0V
35	0.6V	85	1.0V
36	1.0V	86	2.15V
37	1.8V	87	2.15V
38	0V	88	0V
39	2.0V	89	2.5V
40	1.3V	90	0.5V
41	1.5V	91	0.6V
42	1.1V	92	0.5V
43	1.7V	93	1.0V
44	2.5V	94	1.2V
45	1.5V	95	0.9V
46	1.5V	96	1.2V
47	0V	97	0.4V
48	2.0V	98	2.45V
49	1.0V	99	2.5V
50	0.9V	100	0V

IC202

PIN NO.	VOLTAGE
1	1.5V
2	1.7V
3	2.5V
4	1.0V
5	0.9V
6	1.4V
7	0.6V
8	0.6V
9	0.6V
10	2.53V
11	0.6V
12	1.0V
13	1.0V
14	1.0V
15	1.0V
16	1.8V
17	2.0V
18	1.6V
19	1.7V
20	0V

IC351

PIN NO.	VOLTAGE
1	0V
2	0V
3	2.5V
4	0V
5	0V
6	2.5V
7	0V
8	1.0V
9	2.5V
10	0V
11	1.0V
12	2.5V
13	0V
14	4.5V

IC401

PIN NO.	VOLTAGE	PIN NO.	VOLTAGE
1	2.5V	51	0.95V
2	0V	52	1.1V
3	0V	53	0.95V
4	0V	54	1.1V
5	0V	55	0.8V
6	0V	56	0V
7	0V	57	2.47V
8	2.5V	58	2.96V
9	2.5V	59	0V
10	1.18V	60	0V
11	0V	61	0V
12	0V	62	2.5V
13	1.18V	63	0V
14	1.18V	64	0V
15	2.42V	65	2.5V
16	2.1V	66	0V
17	0V	67	2.5V
18	2.1V	68	2.35V
19	2.5V	69	2.75V
20	0V	70	2.75V
21	2.5V	71	0V
22	0V	72	0V
23	0V	73	0V
24	0V	74	3.12V
25	2.9V	75	3.12V
26	1.8V	76	0V
27	0V	77	0V
28	2.5V	78	0.4V
29	2.5V	79	0V
30	2.5V	80	2.5V
31	1.48V	81	2.5V
32	2.5V	82	2.5V
33	0V	83	0V
34	0V	84	2.5V
35	0V	85	2.5V
36	2.5V	86	2.5V
37	2.46V	87	2.5V
38	2.5V	88	0V
39	0V	89	0V
40	2.5V	90	2.0V
41	0.27V	91	0V
42	1.5V	92	2.5V
43	2.47V	93	2.5V
44	2.5V	94	0V
45	2.2V	95	0V
46	2.48V	96	1.2V
47	0.7V	97	0V
48	0.8V	98	0.45V
49	0.8V	99	2.5V
50	0.8V	100	0.3V

IC402

PIN NO.	VOLTAGE
1	2.5V
2	0V
3	1.2V
4	1.2V
5	0V
6	2.5V
7	0V
8	2.5V

IC404

PIN NO.	VOLTAGE
1	0.25V
2	0.25V
3	0V
4	2.23V
5	2.5V

IC441

PIN NO.	VOLTAGE
1	1.0V
2	1.2V
3	1.1V
4	0V
5	1.1V
6	1.2V
7	1.5V
8	2.5V

IC501

PIN NO.	VOLTAGE
1	2.5V
2	2.5V
3	0V
4	0V
5	0V
6	0V
7	1.0V
8	1.0V
9	1.0V
10	1.0V
11	1.0V
12	0V
13	0V
14	2.5V
15	0V
16	0V
17	0.95V
18	0V
19	0.35V
20	.035V
21	0V
22	0V
23	2.5V
24	2.5V

IC431

PIN NO.	VOLTAGE
1	2.5V
2	2.5V
3	0V
4	0V

IC601

PIN NO.	VOLTAGE
1	0V
2	1.0V
3	2.1V
4	0V
5	5.0V
6	0V
7	0V
8	0V
9	5.0V
10	5.0V
11	0V
12	0V
13	0V
14	5.0V
15	0V
16	0V
17	0V
18	0V
19	0V
20	0V
21	0V
22	0V
23	5.0V
24	0V
25	0V
26	0V
27	5.0V
28	5.0V
29	0V
30	0V
31	0V
32	5.0V
33	0V
34	0V
35	2.5V
36	10.8V

IC651

PIN NO.	VOLTAGE
1	0V
2	0V
3	2.5V
4	0V
5	0V
6	0V
7	1.2V
8	2.5V
9	1.2V
10	0V

KIC1

PIN NO.	VOLTAGE
1	5.14V
2	5.14V
3	5.09V
4	0V
5	5.09V
6	5.15V
7	5.16V
8	10.33V

KIC2

PIN NO.	VOLTAGE
1	5.16V
2	5.16V
3	5.16V
4	0V
5	5.16V
6	5.16V
7	5.16V
8	10.34V

IC703

PIN NO.	VOLTAGE
1	1.3V
2	0V
3	0V
4	0V
5	0V
6	0V
7	0V
8	0.95V
9	0V
10	1.8V
11	0V
12	1.85V
13	2.5V
14	0V
15	0V
16	0V
17	-2.85V
18	0V
19	0V
20	2.75V
21	0.83V
22	0V
23	0V
24	0V

IC701

PIN NO.	VOLTAGE
1	0V
2	0V
3	0V
4	0V
5	0V
6	0V
7	0V
8	0V
9	0V
10	0V
11	0V
12	0V
13	0V
14	0V
15	0V
16	0V
17	-2.85V
18	0V
19	0V
20	2.75V
21	0.8V
22	0V
23	0V
24	0V

IC702

PIN NO.	VOLTAGE
1	0V
2	0V
3	0V
4	4.5V
5	7.7V

IC771

PIN NO.	VOLTAGE
1	1.4V
2	0V
3	0V
4	2.5V
5	2.8V

IC801

PIN NO.	VOLTAGE
1	5.0V
2	0V
3	5.0V
4	0V
5	5.0V
6	5.0V
7	5.0V
8	5.0V

IC803

PIN NO.	VOLTAGE
1	5.0V
2	5.0V
3	5.0V
4	0V
5	0V
6	5.0V
7	5.0V
8	0V

IC804

PIN NO.	VOLTAGE
1	7.7V
2	7.6V
3	7.6V
4	0V
5	0V
6	0V

IC821

PIN NO.	VOLTAGE
1	1.25V
2	0.8V
3	1.25V
4	1.23V
5	1.1V
6	0V
7	0.8V
8	4.8V
9	0V
10	0.4V
11	1.0V
12	1.0V

IC841

PIN NO.	VOLTAGE
1	1.25V
2	0.8V
3	1.33V
4	1.22V
5	1.22V
6	0V
7	0V
8	4.8V
9	0V
10	0.4V
11	1.0V
12	1.0V

IC872

PIN NO.	VOLTAGE
1	5.0V
2	0V
3	5.0V
4	0V
5	5.0V
6	5.0V
7	5. 0V
8	5.0V

IC871

PIN NO.	VOLTAGE
1	5.0V
2	4.8V
3	0V
4	0V
5	0V

IC875

PIN NO.	VOLTAGE
1	0V
2	0V
3	0V
4	2.5V
5	4.8V

IC873

PIN NO.	VOLTAGE
1	4.8V
2	4.8V
3	0V
4	0V

IC874

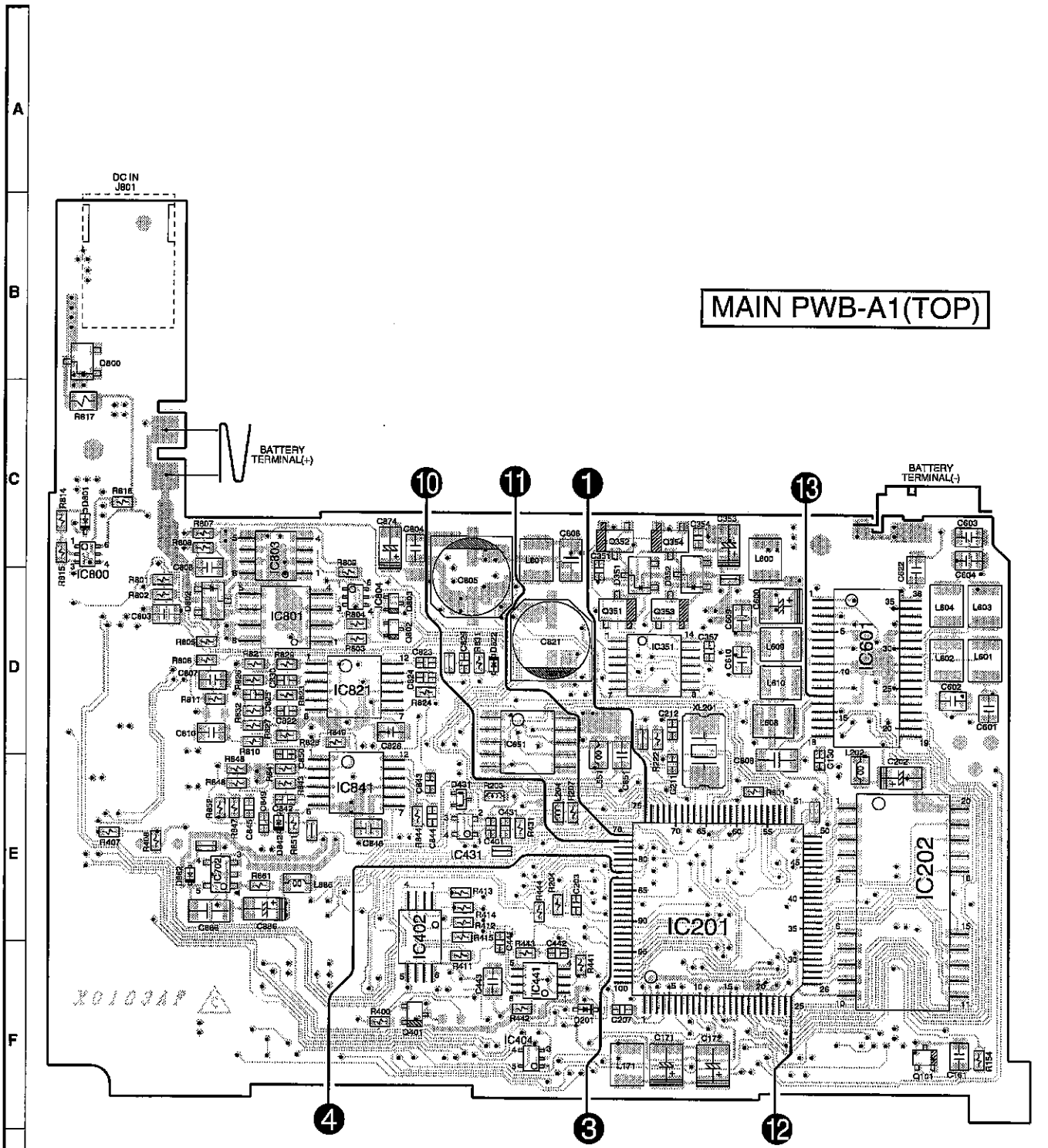
PIN NO.	VOLTAGE
1	3.5V
2	2.97V
3	0V
4	0V
5	4.8V

IC876

PIN NO.	VOLTAGE
1	5.0V
2	0V
3	0V
4	0V
5	2.5V
6	5.0V

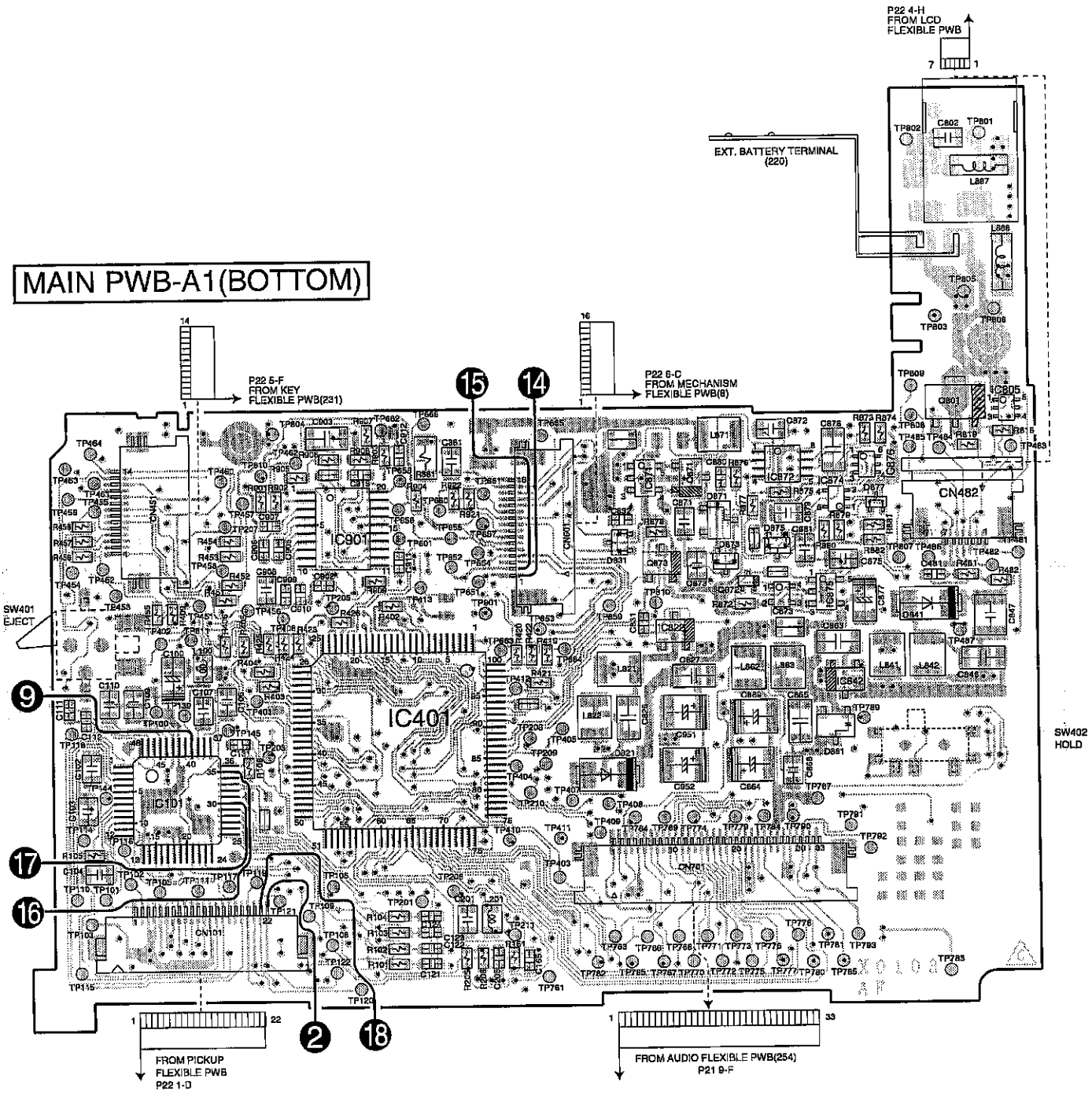
IC901

PIN NO.	VOLTAGE
1	0V
2	0V
3	0V
4	0V
5	0V
6	0V
7	2.4V
8	2.45V
9	1.87V
10	0V
11	2.5V
12	2.1V
13	0V
14	2.1V
15	0V
16	2.5V
17	2.5V
18	0V
19	0V
20	0V



The numbers ❶ to ⑱ are waveform numbers shown in page 39 (MD-MS701H/MS-702H).

Figure 18 WIRING OF P.W.BOARD (1/5)



7	8	9	10	11	12

Figure 19 WIRING OF P.W.BOARD (2/5)

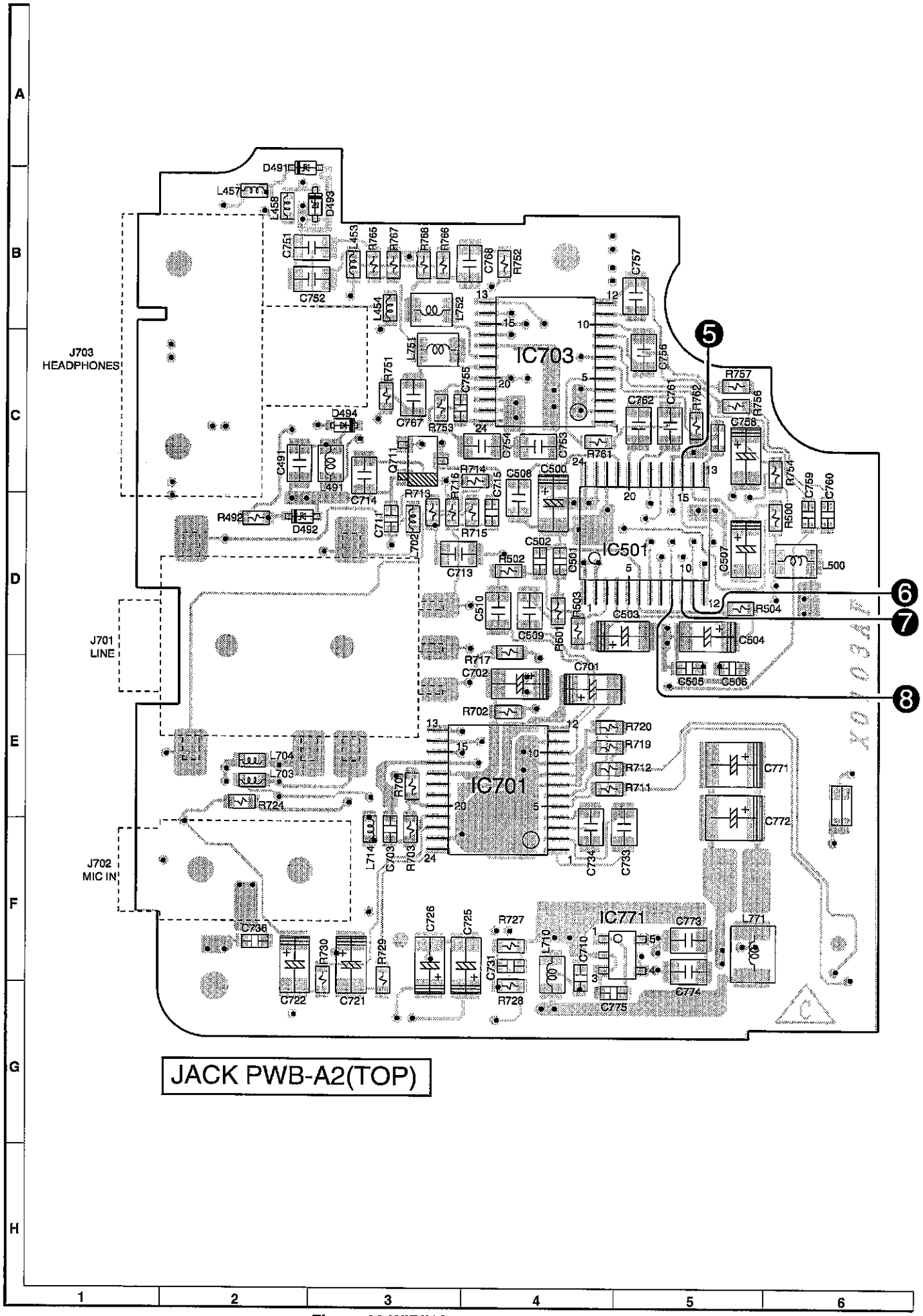
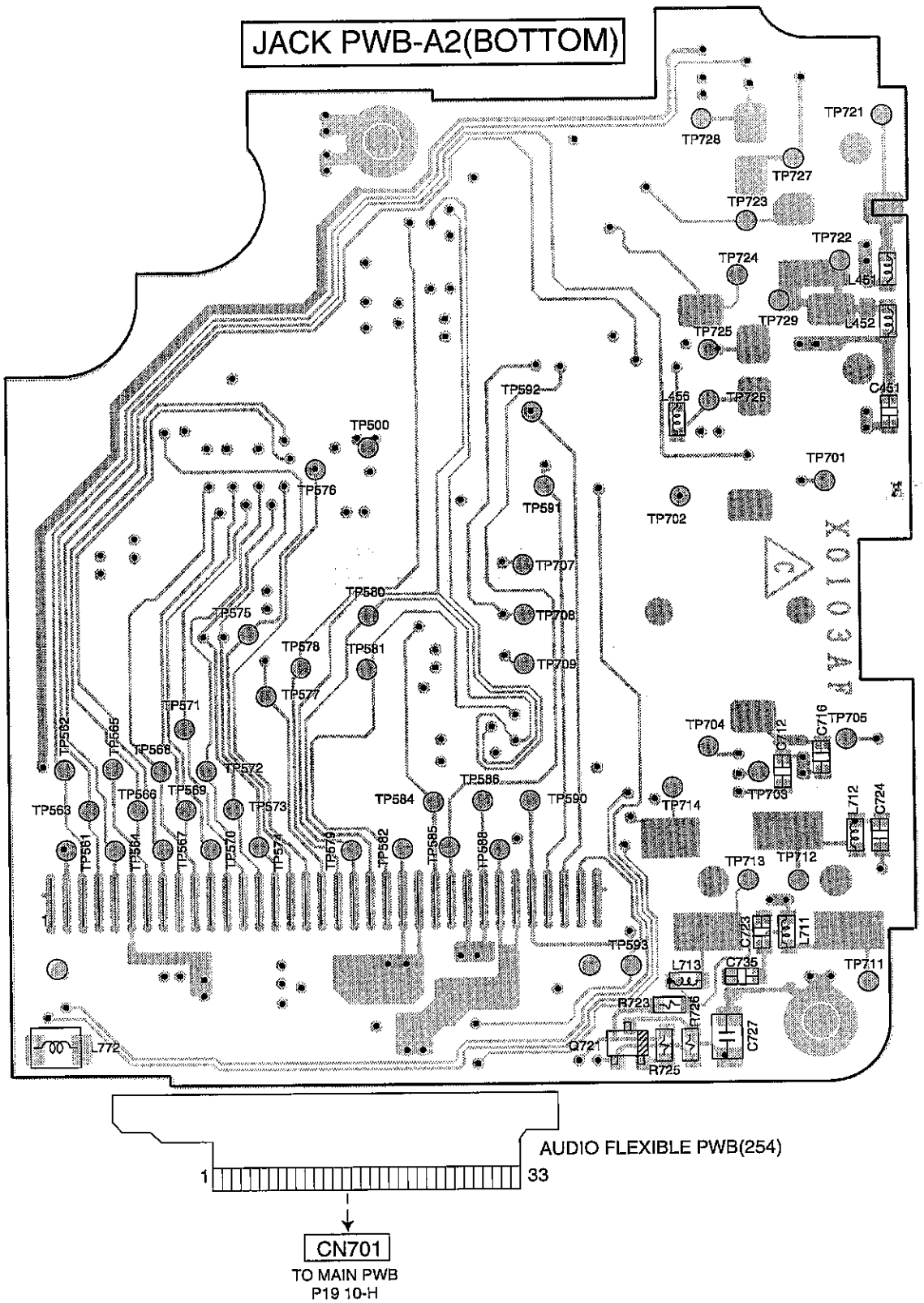


Figure 20 WIRING OF P.W.BOARD (3/5)



7	8	9	10	11	12

Figure 21 WIRING OF P.W.BOARD (4/5)

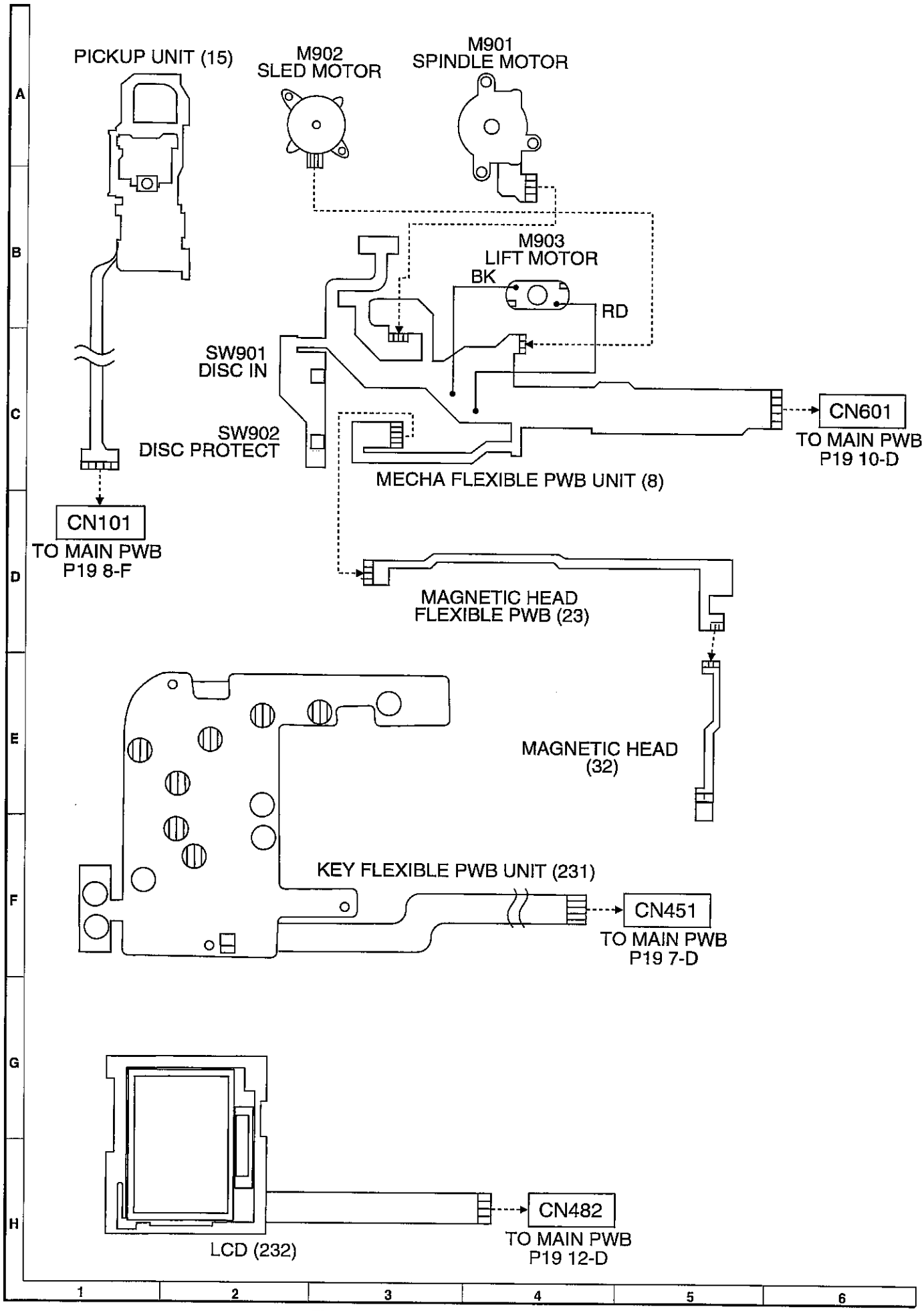


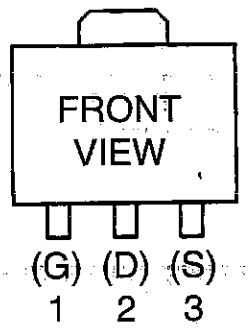
Figure 22 WIRING OF P.W.BOARD (5/5)

NOTES ON SCHEMATIC DIAGRAM

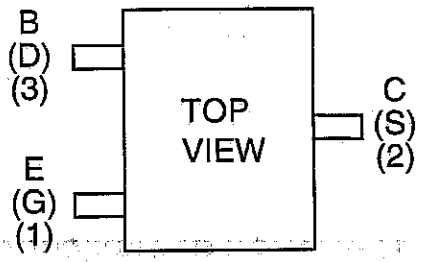
- Resistor:
  To differentiate the units of resistors, such symbol as K and M are used: the symbol K means 1000 ohm and the symbol M means 1000 kohm and the resistor without any symbol is ohm-type resistor. Besides, the one with "Fusible" is a fuse type.
- Capacitor:
  To indicate the unit of capacitor, a symbol P is used: this symbol P means micro-micro-farad and the unit of the capacitor without such a symbol is microfarad. As to electrolytic capacitor, the expression "capacitance/withstand voltage" is used.
  (CH), (TH), (RH), (UJ): Temperature compensation
  (ML): Mylar type

- The indicated voltage in each section is the one measured by Digital Multimeter between such a section and the chassis with no signal given.
- Parts marked with "⚠" (⊏ ⚌ ⚌ ⚌ ⊐) are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

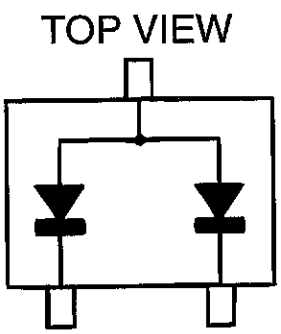
REF. NO	DESCRIPTION	POSITION
SW401	EJECT	OFF—ON
SW402	HOLD	OFF—ON
SW901	DISC IN	OFF—ON
SW902	DISC PROTECT	OFF—ON



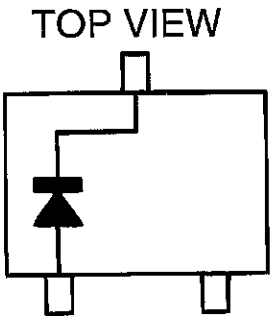
2SA1314 C
2SA2982 C



DTC144 TE 2SC4213 B



SB0209CP
DA221
1SS373



SB00703Q

Figure 23 TYPES OF TRANSISTORS AND DIODES

SHARP PARTS GUIDE

MODEL

MD-MS701H(BL)2
MD-MS701H(S)2
MD-MS701H(MB)2
MD-MS702H(BL)2
MD-MS702H(GR)2
MD-MS702H(GY)2

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following information.

1. MODEL NUMBER
2. REF. No.
3. PART NO.
4. DESCRIPTION

★ MARK: SPARE PARTS-DELIVERY SECTION

For U.S.A. only

Contact your nearest SHARP Parts Distributor to order.

For location of SHARP Parts Distributor,
Please call Toll-Free;
1-800-BE-SHARP

Explanation of capacitors/resistors parts codes

Capacitors

VCC ..... Ceramic type
VCK..... Ceramic type
VCT..... Semiconductor type
VC • • MF ..... Cylindrical type (without lead wire)
VC • • MN..... Cylindrical type (without lead wire)
VC • • TV..... Square type (without lead wire)
VC • • TQ ..... Square type (without lead wire)
VC • • CY ..... Square type (without lead wire)
VC • • CZ ..... Square type (without lead wire)
VC • • • • • • • • • J .. The 13th character represents capacity difference.
("J" ±5%, "K" ±10%, "M" ±20%, "N" ±30%,
"C" ±0.25 pF, "D" ±0.5 pF, "Z" +80-20%.)

If there are no indications for the electrolytic capacitors, error is ±20%.

Resistors

VRD ..... Carbon-film type
VRS..... Carbon-film type
VRN ..... Metal-film type
VR • • MF ..... Cylindrical type (without lead wire)
VR • • MN..... Cylindrical type (without lead wire)
VR • • TV..... Square type (without lead wire)
VR • • TQ ..... Square type (without lead wire)
VR • • CY ..... Square type (without lead wire)
VR • • CZ ..... Square type (without lead wire)
VR • • • • • • • • • J .. The 13th character represents error.
("J" ±5%, "F" ±1%, "D" ±0.5%.)

If there are no indications for other parts, the resistors are ±5% carbon-film type.

NOTE:
Parts marked with "⚠" are important for maintaining the safety of the set.
Be sure to replace parts with specified ones for maintaining the safety and performance of the set.

NO.	PART CODE	★	PRICE RANK	DESCRIPTION
INTEGRATED CIRCUITS				
IC101	VHIIR3R55//-1	J	AQ	RF Signal Processor,IR3R55
IC201	VHILR376481-1	J	BD	ENDEC,LR376481
IC202	RH-IX2567AFZZ	J	BA	4bit D-RAM,IX2567AF
IC351	VHI74ACT02F-1	J	AF	Head Driver,74ACT02F
IC401	RH-IX2680AF03	J	AX	System Microcomputer, IX2680AF
IC402	VHIS29L294A-1	J	AH	E²-PROM,S29L294A
IC404	VHI7SH00FU/-1	J	AE	NAND Gate,7SH00FU
IC431	VHIS80821LN-1	J	AE	Reset,S80821LN
IC441	VHITC7W14FU-1	J	AF	Inverter,TC7W14FU
IC501	VHIAK4514VF-1	J	AT	AD/DA Converter,AK4514VF
IC601	VHIMPC17A39-1	J	AQ	Pickup Coil Driver,MPC17A39
IC651	VHILB1638M/-1	J	AH	Motor Drive,LB1638M
IC701	VHIIR3R54N/-1	J	AQ	Audio Amp.,IR3R54N
IC702	VHITK71345M-1	J	AE	4.5V Regulator (ON/OFF), TK71354M
IC703	VHIIR3R54N/-1	J	AQ	Audio Amp.,IR3R54N
IC771	VHITK71225M-1	J	AE	2.5V Regulator,TK71225M
IC800	VHIHN1C03FU-1	J	AD	Constant Current Drive, HN1C03FU
IC801	VHIHAT1025R-1	J	AK	Constant Current Drive, HAT1025R
IC803	VHINDH831N/-1	J	AH	Constant Current Drive, NDH831N
IC804	VHIRN4904//-1	J	AD	Power Select Charge Drive, RN4904
IC805	VHIUMD3N///-1	J	AC	Constant Current Drive,UMD3N
IC821	VHIIR3M09N/-1	J	AL	Power Drive,IR3M09N
IC822	VHINDS335N/-1	J	AF	Power Drive,NDS335N
IC841	VHIIR3M09N/-1	J	AL	Power Drive,IR3M09N
IC842	VHINDS335N/-1	J	AF	Power Drive,NDS335N
IC871	VHIS8327B30-1	J	AG	3V DC/DC Converter,S8327B30
IC872	VHITC7W32FU-1	J	AE	C-MOS Logic,TC7W32FU
IC873	VHIS80827LN-1	J	AE	2.7V Reset,S80827LN
IC874	VHITC7S00FU-1	J	AD	Charge Drive,TC7S00FU
IC875	VHITK71325M-1	J	AE	Power Supply Microcomputer, TK71325M
IC876	VHIRN4904//-1	J	AD	Power Select Charge Drive, RN4904
IC901	VHIBA6965FV-1	J	AN	3-Phase Brush Leess Driver, BA6965FV
TRANSISTORS				
Q101	VS2SA17457/-1	J	AB	Silicon,PNP,2SA17457
Q351	VS2SK2909//-1	J	AE	FET,2SK2909
Q352	VS2SK2911//-1	J	AE	FET,2SK2911
Q353	VS2SK2909//-1	J	AE	FET,2SK2909
Q354	VS2SK2911//-1	J	AE	FET,2SK2911
Q401	VS2SA17457/-1	J	AB	Silicon,PNP,2SA17457
Q711	VSRN1444A//-1	J	AC	Digital,NPN,RN1444 A
Q721	VS2SC4213B/-1	J	AC	Silicon,NPN,2SC4213 B
Q801	VS2SD1950//-1	J	AD	Silicon,NPN,2SD1950
Q802,803	VSDTC144EE/-1	J	AB	Digital,NPN,DTC144 EE
Q871	VHINDS335N/-1	J	AF	Power Drive,NDS335N
Q872	VSDTC144EE/-1	J	AB	Digital,NPN,DTC144 EE
Q873	VS2SJ305///-1	J	AF	FET,2SJ305
DIODES				
D201	VHD1SS369//-1	J	AD	Silicon,1SS369
D351,352	VHDSB0209CP-1	J	AC	Silicon,SB0209CP
D431	VHD1SS361//-1	J	AB	Silicon,1SS361
D491~493	VHE015Z5R1Y-1	J	AD	Zener,5.1V,015Z5.1Y
D494	VHE15AZ7R5Y-1	J	AC	Zener,7.5V 15AZ7.5Y
D800	VHDRB491D//-1	J	AD	Silicon,RB491D
D801	VHE015Z5R1Y-1	J	AD	Zener,5.1V 015Z5.1Y
D802	VHDSB10015C-1	J	AD	Silicon,SB10015C
D821	VHDF1J2F///-1	J	AE	Silicon,F1J2F
D822	VHDRB521S30-1	J	AC	Silicon,RB521S30
D831	VHD1SS372//-1	J	AD	Silicon,1SS372
D841	VHDF1J2F///-1	J	AE	Silicon,F1J2F
D842	VHDRB521S30-1	J	AC	Silicon,RB521S30
D861	VHDRB491D//-1	J	AD	Silicon,RB491D
D862	VHDRB521S30-1	J	AC	Silicon,RB521S30
D871	VHDRB491D//-1	J	AD	Silicon,RB491D
D873	VHD1SS372//-1	J	AD	Silicon,1SS372
D875	VHD1SS378//-1	J	AC	Silicon,1SS378
D877	VHD1SS360//-1	J	AB	Silicon,1SS360
PH901	VHPGP1S93K/-1	J	AF	Photo Interrupter,GP1S93K

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
COILS				
L100	VPBNN100M0000	J	AC	10 µH
L171	RCILC0333AFZZ	J	AC	10 µH,Choke
L201	VPBNNR47M0000	J	AC	0.47 µH
L202	VPBNN100M0000	J	AC	10 µH
L204	RCILC0353AFZZ	J	AB	Tip Solid Induction,100mA
L452~454	RCILC0352AFZZ	J	AB	Tip Impeder,150mA
L456~458	RCILC0290AFZZ	J	AC	Tip Solid Induction,200mA
L491	VPBNN4R7M0000	J	AC	4.7 µH
L500	VPANM4R7J0000	J	AC	4.7 µH
L600	RCILC0331AFZZ	J	AC	2.2 µH
L601~604	RCILR0559AFZZ	J	AC	47 µH
L608	RCILC0246AFZZ	J	AC	100 µH,Choke
L609,610	RCILR0559AFZZ	J	AC	47 µH
L651	VPBNNR47M0000	J	AC	0.47 µH
L702,703	RCILC0290AFZZ	J	AC	Tip Solid Induction,200mA
L704	RCILC0352AFZZ	J	AB	Tip Impeder,150mA
L710	VPBNNR47M0000	J	AC	0.47 µH
L711	RCILC0352AFZZ	J	AB	Tip Impeder,150mA
L712~714	RCILC0290AFZZ	J	AC	Tip Solid Induction,200mA
L751,752	RCILC0344AFZZ	J	AC	Choke
L771	RCILR0559AFZZ	J	AC	47 µH
L772	VPANM4R7J0000	J	AC	4.7 µH
L801	RCILC0330AFZZ	J	AC	1 µH,Choke
L821	RCILC0332AFZZ	J	AC	4.7 µH,Choke
L822	RCILC0333AFZZ	J	AC	10 µH,Choke
L841	RCILC0332AFZZ	J	AC	4.7 µH,Choke
L842	RCILC0333AFZZ	J	AC	10 µH,Choke
L862	RCILR0559AFZZ	J	AC	47 µH
L863	RCILC0332AFZZ	J	AC	4.7 µH,Choke
L871	RCILR0559AFZZ	J	AC	47 µH
L886	VPBNNR47M0000	J	AC	0.47 µH
L887,888	RCORF0112AFZZ	J	AC	Core
VIBRATOR				
XL201	RCRSC0023AFZZ	J	AK	Crystal,33.8688 MHz
CAPACITORS				
C100	VCSAFA0JJ106M	J	AD	10 µF,6.3V,Electrolytic,Tantalum
C102,103	RC-KZ1193AFZZ	J	AC	1 µF,6.3V,Electrolytic
C104	VCKYTV1EB273K	J	AB	0.027 µF,25V
C106	RC-KZ1189AFZZ	J	AC	0.22 µF,16V,Electrolytic
C107	VCKYTV1EB123K	J	AB	0.012 µF,25V
C109	RC-KZ1193AFZZ	J	AC	1 µF,6.3V,Electrolytic
C110	RC-KZ1189AFZZ	J	AC	0.22 µF,16V,Electrolytic
C111	VCKYCY1HB332K	J	AA	0.0033 µF,50V
C112	VCKYCY1CB333K	J	AA	0.033 µF,16V
C121,122	VCCCCY1HH271J	J	AA	270 pF (CH),50V
C123,124	VCCSCY1HL391J	J	AA	390 pF,50V
C130	VCKYCY1CB104K	J	AB	0.1 µF,16V
C131	VCCCCY1HH331J	J	AA	330 pF (CH),50V
C161	RC-KZ1193AFZZ	J	AC	1 µF,6.3V,Electrolytic
C165	VCKYCY1CB333K	J	AA	0.033 µF,16V
C171,172	VCSAFB0JJ336M	J	AE	33 µF,6.3V,Electrolytic,Tantalum
C201	VCKYTV1CF105Z	J	AB	1 µF,16V
C202	VCSAFA0JJ106M	J	AD	10 µF,6.3V,Electrolytic,Tantalum
C203	VCKYCY1CB104K	J	AB	0.1 µF,16V
C205	VCKYCY1CB104K	J	AB	0.1 µF,16V
C207	VCKYCY1CB104K	J	AB	0.1 µF,16V
C211,212	VCCCCY1HH5R0C	J	AA	5 pF (CH),50V
C351	VCCCCY1HH101J	J	AA	100 pF (CH),50V
C353	VCSAFA0JJ106M	J	AD	10 µF,6.3V,Electrolytic,Tantalum
C354	VCKYCY1CB104K	J	AB	0.1 µF,16V
C357	VCKYCY1CB104K	J	AB	0.1 µF,16V
C361	VCKYTV1HB393K	J	AB	0.039 µF,50V
C401	VCKYCY1CB104K	J	AB	0.1 µF,16V
C431	VCKYCY1CB473K	J	AA	0.047 µF,16V
C441	VCCCCY1HH100D	J	AA	10 pF (CH),50V
C442	VCKYCY1HB681K	J	AA	680 pF,50V
C443	RC-KZ1191AFZZ	J	AC	0.47 µF,10V,Electrolytic
C451	VCKYCY1HB102K	J	AA	1000 pF,50V
C481	VCKYCY1CB104K	J	AB	0.1 µF,16V
C491	VCKYTV1CB104K	J	AA	0.1 µF,16V
C500	VCSAFA0JJ106M	J	AD	10 µF,6.3V,Electrolytic,Tantalum
C501,502	VCKYCY1HB222K	J	AA	0.0022 µF,50V
C503,504	VCSAFA1AJ335M	J	AD	3.3 µF,10V,,Electrolytic,Tantalum
C505,506	VCKYCY1HB102K	J	AA	1000 pF,50V
C507	VCSAFA0JJ106M	J	AD	10 µF,6.3V,Electrolytic,Tantalum
C508	RC-KZ1193AFZZ	J	AC	1 µF,6.3V,Electrolytic

NO.	PART CODE	★	PRICE RANK	DESCRIPTION
C509,510	VCKYTV1CF225Z	J	AC	2.2 µF,16V
C600	VCSAFB1AJ156M	J	AE	15 µF,10V,Electrolytic,Tantalum
C601~604	RC-KZ1193AFZZ	J	AC	1 µF,6.3V,Electrolytic
C608	RC-KZ1216AFZZ	J	AD	3.3 µF,10V,Electrolytic
C609,610	RC-KZ1193AFZZ	J	AC	1 µF,6.3V,Electrolytic
C622	VCKYTV1CF225Z	J	AC	2.2 µF,16V
C651	VCKYTV1CF105Z	J	AB	1 µF,16V
C701,702	VCSAFA0JJ106M	J	AD	10 µF,6.3V,Electrolytic,Tantalum
C703	VCKYCY1EB103K	J	AA	0.01 µF,25V
C710	VCKYCY1CB104K	J	AB	0.1 µF,16V
C711,712	VCCCCY1HH101J	J	AA	100 pF (CH),50V
C713,714	RC-KZ1193AFZZ	J	AC	1 µF,6.3V,Electrolytic
C715	VCKYCY1CB104K	J	AB	0.1 µF,16V
C721,722	VCSAFA1AJ335M	J	AD	3.3 µF,10V,,Electrolytic,Tantalum
C723,724	VCKYCY1HB102K	J	AA	1000 pF,50V
C725,726	VCSAFA1AJ335M	J	AD	3.3 µF,10V,,Electrolytic,Tantalum
C727	VCKYTV1CF105Z	J	AB	1 µF,16V
C731	VCKYCY1CF224Z	J	AB	0.22 µF,16V
C733,734	VCKYTV1CB104K	J	AA	0.1 µF,16V
C735	VCKYCY1HB102K	J	AA	1000 pF,50V
C736	VCKYCY1EB103K	J	AA	0.01 µF,25V
C751,752	VCKYTV1EB823K	J	AB	0.082 µF,25V
C753,754	VCKYTV1CF105Z	J	AB	1 µF,16V
C755	VCKYCY1EB103K	J	AA	0.01 µF,25V
C756,757	VCKYTV1AB684K	J	AC	0.68 µF,10V
C758	VCSAFA1AJ335M	J	AD	3.3 µF,10V,,Electrolytic,Tantalum
C759,760	VCKYCY1CB273K	J	AA	0.027 µF,16V
C761,762	RC-KZ1193AFZZ	J	AC	1 µF,6.3V,Electrolytic
C767,768	RC-KZ1189AFZZ	J	AC	0.22 µF,16V,Electrolytic
C771,772	VCSAFB0JJ336M	J	AE	33 µF,6.3V,Electrolytic,Tantalum
C773	RC-KZ1189AFZZ	J	AC	0.22 µF,16V,Electrolytic
C774	VCKYTV1CF105Z	J	AB	1 µF,16V
C775	VCKYCY1EB103K	J	AA	0.01 µF,25V
C802	VCKYTV1CF105Z	J	AB	1 µF,16V
C803	VCKYTV1CB104K	J	AA	0.1 µF,16V
C804	RC-KZ1193AFZZ	J	AC	1 µF,6.3V,Electrolytic
C805	VCEAPW0JW107M	J	AD	100 µF,6.3V,Electrolytic
C806	RC-KZ1216AFZZ	J	AD	3.3 µF,10V,Electrolytic
C807	VCKYTV1CB104K	J	AA	0.1 µF,16V
C808	RC-KZ1193AFZZ	J	AC	1 µF,6.3V,Electrolytic
C810	RC-KZ1190AFZZ	J	AC	0.33 µF,10V,Electrolytic
C821	VCEAPW0GW227M	J	AD	220 µF,4.0V,Electrolytic
C822	VCCCCY1HH390J	J	AA	39 pF (CH),50V
C823,824	VCCCCY1HH101J	J	AA	100 pF (CH),50V
C825	VCCCCY1HH680J	J	AA	68 pF (CH),50V
C826	RC-KZ1198AFZZ	J	AC	1 µF,10V,Electrolytic
C827	RC-KZ1216AFZZ	J	AD	3.3 µF,10V,Electrolytic
C828	RC-KZ1193AFZZ	J	AC	1 µF,6.3V,Electrolytic
C829	VCKYCY1EB103K	J	AA	0.01 µF,25V
C830	VCKYCY1HB102K	J	AA	1000 pF,50V
C831,832	VCKYCY1CB104K	J	AB	0.1 µF,16V
C842	VCCCCY1HH220J	J	AA	22 pF (CH),50V
C843,844	VCCCCY1HH101J	J	AA	100 pF (CH),50V
C845	VCCCCY1HH470J	J	AA	47 pF (CH),50V
C846	RC-KZ1198AFZZ	J	AC	1 µF,10V,Electrolytic
C847	RC-KZ1217AFZZ	J	AE	10 µF,10V,Electrolytic
C848	RC-KZ1193AFZZ	J	AC	1 µF,6.3V,Electrolytic
C849	VCKYCY1EB103K	J	AA	0.01 µF,25V
C850	VCKYCY1HB102K	J	AA	1000 pF,50V
C863	RC-KZ1198AFZZ	J	AC	1 µF,10V,Electrolytic
C864	VCSAFB0JJ336M	J	AE	33 µF,6.3V,Electrolytic,Tantalum
C865,866	RC-KZ1198AFZZ	J	AC	1 µF,10V,Electrolytic
C868	VCKYTV1CF105Z	J	AB	1 µF,16V
C869	VCSAFB0JJ336M	J	AE	33 µF,6.3V,Electrolytic,Tantalum
C871,872	RC-KZ1193AFZZ	J	AC	1 µF,6.3V,Electrolytic
C873	VCKYTV1CF105Z	J	AB	1 µF,16V
C874	VCSAFA1AJ106M	J	AD	10 µF,10V,Electrolytic,Tantalum
C875	RC-KZ1189AFZZ	J	AC	0.22 µF,16V,Electrolytic
C877	VCSAFA0JJ106M	J	AD	10 µF,6.3V,Electrolytic,Tantalum
C878	RC-KZ1216AFZZ	J	AD	3.3 µF,10V,Electrolytic
C879	RC-KZ1193AFZZ	J	AC	1 µF,6.3V,Electrolytic
C880	VCKYCY1EB103K	J	AA	0.01 µF,25V
C881	RC-KZ1193AFZZ	J	AC	1 µF,6.3V,Electrolytic
C886	VCSAFA1AJ106M	J	AD	10 µF,10V,Electrolytic,Tantalum
C902	VCKYCY1EB103K	J	AA	0.01 µF,25V
C903	RC-KZ1216AFZZ	J	AD	3.3 µF,10V,Electrolytic
C905~907	VCKYCY1HB222K	J	AA	0.0022 µF,50V
C908	RC-KZ1191AFZZ	J	AC	0.47 µF,10V,Electrolytic
C909,910	VCKYCY1CB473K	J	AA	0.047 µF,16V
C911	VCKYCY1CB104K	J	AB	0.1 µF,16V
C951,952	VCSAFE0GJ476M	J	AE	47 µF,4.0V,Electrolytic, Tantalume

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
RESISTORS				
	VRS-CY1JB000J	J	AA	0 ohm,Jumper,0.8x1.55mm, Green
	VRS-TV2AB000J	J	AA	0 ohm,Jumper,1.25x2mm,Green
R101~104	VRS-CY1JB223J	J	AA	22 kohms,1/16W
R105	VRS-CY1JB394J	J	AA	390 kohms,1/16W
R106	VRS-CY1JB563J	J	AA	56 kohms,1/16W
R154	VRS-CY1JB122J	J	AA	1.2 kohms,1/16W
R161	VRS-CY1JB122J	J	AA	1.2 kohms,1/16W
R203	VRS-CY1JB101J	J	AA	100 ohm,1/16W
R204	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R205	VRS-CY1JB564D	J	AA	560 kohms,1/16W
R206	VRS-CY1JB224D	J	AA	220 kohms,1/16W
R207	VRS-CY1JB681J	J	AA	680 ohms,1/16W
R222	VRS-CY1JB105J	J	AA	1 Mohm,1/16W
R361	VRS-TQ2BB8R2J	J	AB	8.2 ohms,1/8W
R400	VRS-CY1JB392J	J	AA	3.9 kohms,1/16W
R402	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R403	VRS-CY1JB223J	J	AA	22 kohms,1/16W
R404	VRS-CY1JB154J	J	AA	150 kohms,1/16W
R405	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R406	VRS-CY1JB104J	J	AA	100 kohm,1/16W
R407	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R408,409	VRS-CY1JB104J	J	AA	100 kohm,1/16W
R411	VRS-CY1JB104J	J	AA	100 kohm,1/16W
R412	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R413~415	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R419,420	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R421	VRS-CY1JB104J	J	AA	100 kohm,1/16W
R422	VRS-CY1JB333J	J	AA	33 kohms,1/16W
R423	VRS-CY1JB223D	J	AA	22 kohms,1/16W
R424,425	VRS-CY1JB223J	J	AA	22 kohms,1/16W
R426	VRS-CY1JB104J	J	AA	100 kohm,1/16W
R431	VRS-CY1JB334J	J	AA	330 kohms,1/16W
R441	VRS-CY1JB123J	J	AA	12 kohms,1/16W
R442	VRS-CY1JB104J	J	AA	100 kohm,1/16W
R443	VRS-CY1JB393J	J	AA	39 kohms,1/16W
R444	VRS-CY1JB272J	J	AA	2.7 kohms,1/16W
R451	VRS-CY1JB562J	J	AA	5.6 kohms,1/16W
R452	VRS-CY1JB822J	J	AA	8.2 kohms,1/16W
R453	VRS-CY1JB183J	J	AA	18 kohms,1/16W
R454	VRS-CY1JB563J	J	AA	56 kohms,1/16W
R455	VRS-CY1JB562J	J	AA	5.6 kohms,1/16W
R456	VRS-CY1JB822J	J	AA	8.2 kohms,1/16W
R457	VRS-CY1JB183J	J	AA	18 kohms,1/16W
R458	VRS-CY1JB563J	J	AA	56 kohms,1/16W
R481	VRS-CY1JB363D	J	AA	36 kohms,1/16W
R482	VRS-CY1JB183D	J	AA	18 kohms,1/16W
R492	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R500	VRS-CY1JB4R7J	J	AA	4.7 ohms,1/16W
R501,502	VRS-CY1JB471J	J	AA	470 ohms,1/16W
R503,504	VRS-CY1JB203J	J	AA	20 kohms,1/16W
R601	VRS-CY1JB563J	J	AA	56 kohms,1/16W
R701,702	VRS-CY1JB101J	J	AA	100 ohm,1/16W
R703	VRS-CY1JB154J	J	AA	150 kohms,1/16W
R711,712	VRS-CY1JB562J	J	AA	5.6 kohms,1/16W
R713,714	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R715,716	VRS-CY1JB104J	J	AA	100 kohm,1/16W
R717	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R719,720	VRS-CY1JB822J	J	AA	8.2 kohms,1/16W
R723,724	VRS-CY1JB682J	J	AA	6.8 kohms,1/16W
R725	VRS-CY1JB101J	J	AA	100 ohm,1/16W
R726	VRS-CY1JB393J	J	AA	39 kohms,1/16W
R727	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R728	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R729,730	VRS-CY1JB272J	J	AA	2.7 kohms,1/16W
R751,752	VRS-CY1JB820J	J	AA	82 ohms,1/16W
R753	VRS-CY1JB154J	J	AA	150 kohms,1/16W
R754	VRS-CY1JB334J	J	AA	330 kohms,1/16W
R756,757	VRS-CY1JB273J	J	AA	27 kohms,1/16W
R761,762	VRS-CY1JB332J	J	AA	3.3 kohms,1/16W
R765,766	VRS-CY1JB300J	J	AA	30 ohms,1/16W
R767,768	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R801	VRS-CY1JB684D	J	AA	680 kohms,1/16W
R802	VRS-CY1JB394D	J	AA	390 kohms,1/16W
R803,804	VRS-CY1JB104J	J	AA	100 kohm,1/16W
R805	VRS-CY1JB474D	J	AA	470 kohms,1/16W
R806	VRS-CY1JB684D	J	AA	680 kohms,1/16W
R807	VRS-CY1JB273D	J	AA	27 kohms,1/16W
R808	VRS-CY1JB393D	J	AA	39 kohms,1/16W
R809	VRS-CY1JB104J	J	AA	100 kohm,1/16W

NO.	PART CODE	★	PRICE RANK	DESCRIPTION
R810,811	VRS-CY1JB184D	J	AA	180 kohms,1/16W
R814,815	VRS-CY1JB392D	J	AA	3.9 kohms,1/16W
R816	VRS-CY1JB122D	J	AA	1.2 kohms,1/16W
R817	VRS-TV2AB223J	J	AA	22 kohms,1/10W
R818	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R819	VRS-CY1JB271J	J	AA	270 ohms,1/16W
R821	VRS-CY1JB104J	J	AA	100 kohm,1/16W
R823	VRS-CY1JB104J	J	AA	100 kohm,1/16W
R824	VRS-CY1JB153J	J	AA	15 kohms,1/16W
R826	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R827	VRS-CY1JB304D	J	AA	300 kohms,1/16W
R828	VRS-CY1JB274D	J	AA	270 kohms,1/16W
R829	VRS-CY1JB333J	J	AA	33 kohms,1/16W
R831	VRS-CY1JB104J	J	AA	100 kohm,1/16W
R832	VRS-CY1JB335J	J	AA	3.3 Mohms,1/16W
R841	VRS-CY1JB104J	J	AA	100 kohm,1/16W
R843	VRS-CY1JB104J	J	AA	100 kohm,1/16W
R844	VRS-CY1JB153J	J	AA	15 kohms,1/16W
R846	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R847	VRS-CY1JB334D	J	AA	330 kohms,1/16W
R848	VRS-CY1JB224D	J	AA	220 kohms,1/16W
R849	VRS-CY1JB333J	J	AA	33 kohms,1/16W
R851	VRS-CY1JB104J	J	AA	100 kohm,1/16W
R852	VRS-CY1JB155J	J	AA	1.5 Mohms,1/16W
R861	VRS-CY1JB104J	J	AA	100 kohm,1/16W
R872	VRS-CY1JB104J	J	AA	100 kohm,1/16W
R873	VRS-CY1JB102J	J	AA	1 kohm,1/16W
R874	VRS-CY1JB474J	J	AA	470 kohms,1/16W
R875~882	VRS-CY1JB104J	J	AA	100 kohm,1/16W
R901,902	VRS-CY1JB1R0J	J	AA	1 ohm,1/16W
R903	VRS-CY1JB151J	J	AA	150 ohms,1/16W
R904	VRS-CY1JB223J	J	AA	22 kohms,1/16W
R905	VRS-CY1JB104J	J	AA	100 kohm,1/16W
R906	VRS-CY1JB274J	J	AA	270 kohms,1/16W
R907	VRS-CY1JB184J	J	AA	180 kohms,1/16W
R908	VRS-CY1JB104J	J	AA	100 kohm,1/16W
R909	VRS-CY1JB103J	J	AA	10 kohm,1/16W
R921	VRS-CY1JB331J	J	AA	330 ohms,1/16W
R922	VRS-CY1JB104J	J	AA	100 kohm,1/16W

OTHER CIRCUITRY PARTS

CN101	QCNCW801XAFZZ	J	AH	Socket,22Pin
CN451	QCNCW749PAFZZ	J	AE	Socket,14Pin
CN482	QCNCW804GAFZZ	J	AD	Socket,7Pin
CN601	QCNCW804RAFZZ	J	AE	Socket,16Pin
CN701	QCNCWWQ33AFZZ	J	AE	Socket,33Pin
J701	VHLGP1FB65R-1	J	AP	Jack,LINE
J702	QJAKM0189AFZZ	J	AE	Jack,MIC IN
J703	QJAKM0201AFZZ	J	AH	Jack,Remote Control/Headphones
J801	QJAKC0136AFZZ	J	AD	Jack,DC
M901	RMOTV0500AFZZ	J	AT	Motor Ass'y [Spindle]
M902	RMOTV0503AFZZ	J	AF	Motor Ass'y [Sled]
M903	RMOTV0501AFM1	J	AS	Motor Ass'y [Lift]
SW401	QSW-M0001AWZZ	J	AD	Switch,Push Type [EJECT]
SW402	QSW-S0948AFZZ	J	AC	Switch,Slide Type [HOLD]
SW901	QSW-M0169AFZZT	J	AD	Switch,Push Type [Disc In]
SW902	QSW-M0170AFZZT	J	AD	Switch,Push Type [Disc Protect]

MECHANICAL PARTS

1	NGERH0597AFZZ	J	AC	Wheel,Drive
2	NSFTD0328AFZZ	J	AE	Screw,Drive
3	LHLDX3136AFM1	J	AH	Cartridge Holder Ass'y
4	MSPRT1607AFFJ	J	AB	Spring,Cancel Lever
5	MLEVF2598AFFW	J	AD	Lever,Eject
6	LCHSM0931AFM1	J	AN	Main Chassis Ass'y
7	PCUSG0599AFZZ	J	AB	Cushion
8	QPWBH0306AFM1	J	AQ	Mechanism Flexible PWB Ass'y
8-1	QPWBH0306AFZZ	J	AK	Mechanism Flexible PWB (Not Replacement Item)
8-2(SW901)	QSWM0169AFZZT	J	AD	Switch,Push Type [Disc In]
8-3(SW902)	QSWM0170AFZZT	J	AD	Switch,Push Type [Disc Protect]
8-4(PH901)	VHPGP1S93K/-1	J	AF	Photo Interrupter,GP1S93K
11	MSPRP0881AFFJ	J	AB	Spring,
13	NGERH0596AFZZ	J	AD	Gear,Drive
15	RCTRH8175AFZZ	J	BM	Optical Pickup Unit
16	MSPRP0880AFFJ	J	AC	Spring,Drive Grip
18	NSFTM0292AFFW	J	AC	Shaft,Guide
20	MSPRT1604AFFJ	J	AB	Spring,Eject Lever
23	QPWBH0307AFZZ	J	AF	Magnetic Head Flexible PWB

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
25	MLEVF2599AFM1	J	AE	Lift Lever Ass'y
26	NGERH0595AFZZ	J	AC	Gear,Lift Drive
28	MLEVF2600AFFW	J	AD	Lever,Lift
29	MSPRD1353AFFJ	J	AB	Spring,Lift Lever
30	LANGF1588AFFW	J	AD	Bracket,Pickup
32	RCILH0109AFZZ	J	AN	Magnetic Head
501	XSPSN14P01800	J	AA	Screw,ø1.4×1.8mm
502	LX-JZ0154AFZZ	J	AA	Screw,ø1.4×2.8mm
503	LX-BZ0823AFZZ	J	AA	Screw,ø1.4×1.2mm
504	LX-WZ9290AFZZ	J	AA	Washer,ø0.8×ø2.4×0.25mm
505	LX-BZ0800AFZZ	J	AA	Screw,ø1.4×2.5mm
506	LX-JZ0146AFZZ	J	AA	Screw,ø1.7×2.5mm
507	LX-BZ0804AFFF	J	AA	Screw,ø1.4×2.2mm
508	LX-BZ0960AFZZ	J	AB	Screw,ø1.4×1.5mm
509	XSPSN14P01200	J	AA	Screw,ø1.4×1.2mm
510	LX-WZ9164AFZZ	J	AA	Washer,ø1×ø2.4×0.25mm
511	LX-BZ0959AFZZ	J	AB	Screw,ø1.4×1.8mm
512	LX-WZ9293AFZZ	J	AA	Washer,ø2.7×ø5×0.25mm
513	LX-WZ9294AFZZ	J	AA	Washer,ø1×ø2.4×0.15mm
514	XAPSF14P01600	J	AA	Screw,ø1.4×1.6mm
M901	RMOTV0500AFZZ	J	AT	Motor Ass'y [Spindle]
M902	RMOTV0503AFZZ	J	AF	Motor Ass'y [Sled]
M903	RMOTV0501AFM1	J	AS	Motor Ass'y [Lift]

CABINET PARTS

201	GCABB2841AFSB	J	AG	Front Cabinet [701H2 BL/MB/702H2 BL]
201	GCABB2841AFSC	J	AG	Front Cabinet [701H2 S]
202	CCABD4371AF01	J	AX	Bottom Cabinet Ass'y [702H2 GY]
202	CCABD4371AF03	J	AX	Bottom Cabinet Ass'y [702H2 GR]
202	CCABD4371AF05	J		Bottom Cabinet Ass'y [702H2 BL]
202	CCABD4372AF01	J	AX	Bottom Cabinet Ass'y [701H2 S]
202	CCABD4372AF03	J	AX	Bottom Cabinet Ass'y [701H2 BL]
202-1	———		—	Bottom Cabinet (Not Replacement Item)
202-2	GCOVA2218AFSA	J	AB	Cover,DC Jack
202-3	JKNBZ2040AFSA	J	AD	Knob,Hold
202-4	PSHET0371AFZZ	J	AC	Sheet,Bottom Cabinet
203	GFTAB1348AFSA	J	AC	Lid,Battery [701H2 S]
203	GFTAB1348AFSB	J	AC	Lid,Battery [702H2 GY]
203	GFTAB1348AFSG	J	AF	Lid,Battery [701H2 BL/702H2 BL]
203	GFTAB1348AFSJ	J	AF	Lid,Battery [702H2 GR]
203	GFTAB1348AFSK	J		Lid,Battery [701H2 MB]
205	GCOVA2217AFSA	J	AD	Cover,Eject [701H2 S]
205	GCOVA2217AFSB	J	AD	Cover,EJECT [701H2 BL/MB/702H2]
206	QTANZ9150AFFQ	J	AC	Battery Terminal,-
207	QTANZ9149AFFQ	J	AC	Battery Terminal,+
208	JKNBK0526AFSA	J	AE	Knob,Eject
209	LANGK0934AFM1	J	AN	Main Frame Ass'y
210	PCUSG0649AFZZ	J	AB	Cushion Machanism
211	PSHET0373AFZZ	J	AC	Sheet
213	LANGZ0343AFM1	J	AN	Eject Bracket Ass'y
214	PCUSG0635AFZZ	J	AA	Rubber,Preventive Vibration B
215	PCUSG0636AFZZ	J	AA	Rubber,Preventive Vibration C
216	GCABA2839AFSA	J	AF	Center Cabinet [701H2 S]
216	GCABA2839AFSB	J	AF	Center Cabinet [701H2 BL/MB/702H2 BL/GR/GL]
217	PCUSG0534AFZZ	J	AC	Rubber,Preventive Vibration
219	PSHET0378AFZZ	J	AB	Sheet,Extention Battery Terminal
220	QTANZ9151AFFQ	J	AG	Extention Battery Terminal
221	CCABC4371AF01	J	BA	Top Cabinet Ass'y [702H2 GY]
221	CCABC4371AF03	J	BB	Top Cabinet Ass'y [702H2 GR]
221	CCABC4371AF05	J		Top Cabinet Ass'y [702H2 BL]
221	CCABC4372AF01	J	BA	Top Cabinet Ass'y [701H2 S]
221	CCABC4372AF03	J	BA	Top Cabinet Ass'y [701H2 BL]
221-1	———		—	Top Cabinet (Not Replacement Item)
221-2	HDECQ0528AFSA	J	AG	Transparent Plate [701H2 S/BL/MB]
221-2	HDECQ0533AFSA	J	AG	Transparent Plate [702H2 BL/GR/GY]
221-3	HDECQ0529AFSA	J	AM	Decoration Plate [701H2 S]
221-3	HDECQ0529AFSB	J	AM	Decoration Plate [701H2 BL/MB/702H2 BL]

NO.	PART CODE	★	PRICE RANK	DESCRIPTION
221-4	PSHEZ0817AFZZ	J	AC	Sheet,Transparent Plate
221-5	PSHEZ0818AFZZ	J	AC	Sheet,Decoration Plate
221-6	LBOSZ0146AFZZ	J	AC	Boss
222	LANGT1953AFFW	J	AC	Bracket,Eject
223	PFLT-1127AFZZ	J	AA	PU Felt
224	PSHEZ0855AFZZ	J	AB	Sheet,Head
226	LANGK0935AFFW	J	AH	Bracket,Knob
227	LHLDZ1706AFZZ	J	AD	Holder,LCD
228	PCUSG0648AFZZ	J	AB	Cushion,LCD
229	PCUSG0651AFZZ	J	AB	Cushion,Bracket
231	RUNTK0442AFZZ	J	AP	Key Flexible PWB Ass'y
232	RUNTZ0655AFZZ	J	AZ	LCD
233	JKNBZ2042AFSA	J	AK	Knob,Operation A [701H2 S/BL/MB/702H2 GR]
233	JKNBZ2042AFSB	J	AF	Knob,Oparetion A [702H2 BL/GY]
234	JKNBZ2043AFSA	J	AE	Knob,Operation D [701H2 S/BL/MB]
234	JKNBZ2047AFSA	J	AG	Knob,Oparetion D [702H2 GY]
234	JKNBZ2047AFSB	J	AH	Knob,Operation D [702H2 BL/GR]
235	JKNBZ2044AFSA	J	AC	Knob,Operation B
236	JKNBZ2045AFSA	J	AC	Knob,REC [701H2 S/BL/MB]
236	JKNBZ2048AFSA	J	AC	Knob,REC [702H2 BL/GR/GY]
237	PCUSG0637AFZZ	J	AB	Cushion A
238	PCUSG0652AFZZ	J	AB	Cushion,Bracket
239	PSPAZ0532AFZZ	J	AC	Spacer Mechanism
240	PSHET0375AFZZ	J	AB	Sheet,LCD
241	HDECB0458AFSA	J	AB	Decoration Screw [702H2 BL/GR/GY Only]
242	HDECQ0576AFSA	J	AN	Decoration Plate [702H2 GY Only]
242	HDECQ0576AFSB	J	AN	Decoration Plate [702H2 BL/GR Only]
244	PCUSG0646AFZZ	J	AB	Cushion,Jack
245	PCUSG0649AFZZ	J	AB	Cushion Machanism
246	PSHEZ0851AFZZ	J	AC	Bracket,Eject Knob
247	PCUSG0646AFZZ	J	AB	Rubber,Prevention Vibration D
248	GFTAC3135AFSA	J	AG	Cover,MD
249	LANGZ0335AFFW	J	AB	Bracket,Disc Guide
250	PCUSG0638AFZZ	J	AA	Rubber,Preventive Vibration
251	PGIDM0256AFSA	J	AB	Guide (Left)
253	PCUSG0647AFZZ	J	AB	Cushion,DC
254	QPWBH0308AFZZ	J	AE	Audio Flexible PWB
256	PSHET0382AFZZ	J	AB	Sheet,Jack
257	TLABS0465AFZZ	J	AB	Label,Laser Mark
258	TLABS0497AFZZ	J	AD	Label,Laser Caution
601	LX-BZ0877AFF3	J	AA	Screw,ø1.4x1.5mm
602	LX-BZ0908AFF3	J	AA	Screw,ø1.4x2.0mm
603	LX-CZ0126AFFF	J	AA	Screw,ø1.4x2mm
604	LX-CZ0107AFFF	J	AA	Screw,ø1.2x2.5mm
605	LX-BZ0805AFFN	J	AB	Screw,ø1.7x2.5mm
606	LX-BZ0967AFFC	J	AB	Screw,ø1.4x2mm

ACCESSORIES/PACKING PARTS

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
1	QCNWG0382AFZZ	J	AK	Connecting Cord,RCA Type
2	SPAKZ0481AFZZ	J	AD	Pad,AC Adaptor
⚠3	RADPA7486AFZZ	J	AY	AC Adapter [701H2 S/BL/702H2 GY/BL/GR]
⚠3	RADPA8487AFZZ	J	BC	AC Adapter [701H2 S/BL/MB/702H2 GY for UK]
4	RPHOH0176AFZZ	J	AR	Headphones
4-1	PCAPH8107AFZZ	J	AD	Cushion,Headphones
5	RRMCW0024AFZZ	J	BB	Remote Control
6	SPAKA2679AFZZ	J	AD	Packing Add.,Unit
7	SPAKC6613AFZZ	J		Packing Case [702H2 GY] (Serial No.80500001~ 80504800 for UK Only)
7	SPAKC6614AFZZ	J		Packing Case [701H2 S] (Serial No.80500001~ 80508220 for UK Only)
7	SPAKC6615AFZZ	J		Packing Case [701H2 BL]
7	SPAKC6621AFZZ	J		Packing Case [702H2 GR]
7	SPAKC6625AFZZ	J		Packing Case [702H2 BL]
7	SPAKC6646AFZZ	J	AL	Packing Case [701H2 S for UK Only] (Serial No.80608221~)
7	SPAKC6648AFZZ	J	AL	Packing Case [702H2 GY for UK Only] (Serial No.80604801~)
7	SPAKC6666AFZZ	J		Packing Case [701H2 MB]
8	UBATI0068AFSA	J	BG	Rechargeable,Battery
9	SPAKZ0475AFZZ	J	AD	Pad,Operation Manual [701H2 S for UK/France] (Serial No.90725451~)
9	SPAKZ0475AFZZ	J	AD	Pad,Operation Manual [701H2 BL for UK/France] (Serial No.70702450~)
9	SPAKZ0475AFZZ	J	AD	Pad,Operation Manual [701H2 GY for UK/France] (Serial No.90710871~)
10	TCADS0085AFZZ	J	AD	Service Card [701H2 S/BL/702H2 GY for UK Only]
11	TINSE1639AFZZ	J	AG	Operation Manual [701H2 S/BL/MB/702H2 GY for UK]
11	TINSF0018AFZZ	J		Operation Manual [701H2 S for France Only] (Serial No.90725451~)
11	TINSF0018AFZZ	J		Operation Manual [702H BL for France Only] (Serial No.70501000~)
11	TINSF0018AFZZ	J		Operation Manual [702H GY for France Only] (Serial No.90710871~)
11	TINSF0018AFZZ	J		Operation Manual [702H GR for France Only] (Serial No.90502000~)
11	TINSZ1370AFZZ	J	AQ	Operation Manual [701H2 S for Europe] (Serial No.90725451~)
11	TINSZ1370AFZZ	J	AQ	Operation Manual [701H2 BL for Europe] (Serial No.70702450~)
11	TINSZ1370AFZZ	J	AQ	Operation Manual [702H2 BL for Europe] (Serial No.70501000~)
11	TINSZ1370AFZZ	J	AQ	Operation Manual [702H2 GY for Europe] (Serial No.90710871~)
11	TINSZ1370AFZZ	J	AQ	Operation Manual [702H2 GR for Europe] (Serial No.90502000~)
12	UBAGC0076AFSA	J	AH	Carrying Case
13	SSAKH0314AFZZ	J	AD	Polyethylene Bag,Unit
14	SPAKZ0479AFZZ	J	AC	Sheet
15	QCNWG0422AFZZ	J		Opticel Cable [701H2 S for France Only] (Serial No.90725451~)
15	QCNWG0422AFZZ	J		Opticel Cable [702H2 BL for France Only] (Serial No.70501000~)
15	QCNWG0422AFZZ	J		Opticel Cable [702H2 GY for France Only] (Serial No.90710871~)
15	QCNWG0422AFZZ	J		Opticel Cable [702H2 GR for France Only] (Serial No.90502000~)
16	TLABM0628AFZZ	J		Label,Feature [701H2 S for France Only] (Serial No.90725451~)
16	TLABM0628AFZZ	J		Label,Feature [702H2 BL for France Only] (Serial No.70501000~)
16	TLABM0628AFZZ	J		Label,Feature [702H2 GY for France Only] (Serial No.90710871~)
16	TLABM0628AFZZ	J		Label,Feature [702H2 GR for France Only] (Serial No.90502000~)

P.W.B. ASSEMBLY (Not Replacement Item)

PWB-A1,2	DCYO-3068AF93	J	—	Main/Jack (Combined Ass'y) [701H2/702H2 GY for UK Only]

NO.	PART CODE	★	PRICE RANK	DESCRIPTION

OTHER SERVICE PARTS

	QCNWK0110AFZZ	J	AF	Flat Cable for Service,16Pin
	RUNTK0460AFZZ	J	BF	Extention Connector Unit for Service,16Pin
	UDSKM0001AFZZ	J	AZ	Recording Mini Disc
	88GMMD-110	J	BV	High Reflection,MMD-110 (TEAC Test MD)
	88GMMD-212	J	BU	Low Reflection,MMD-121 (TEAC Test MD)

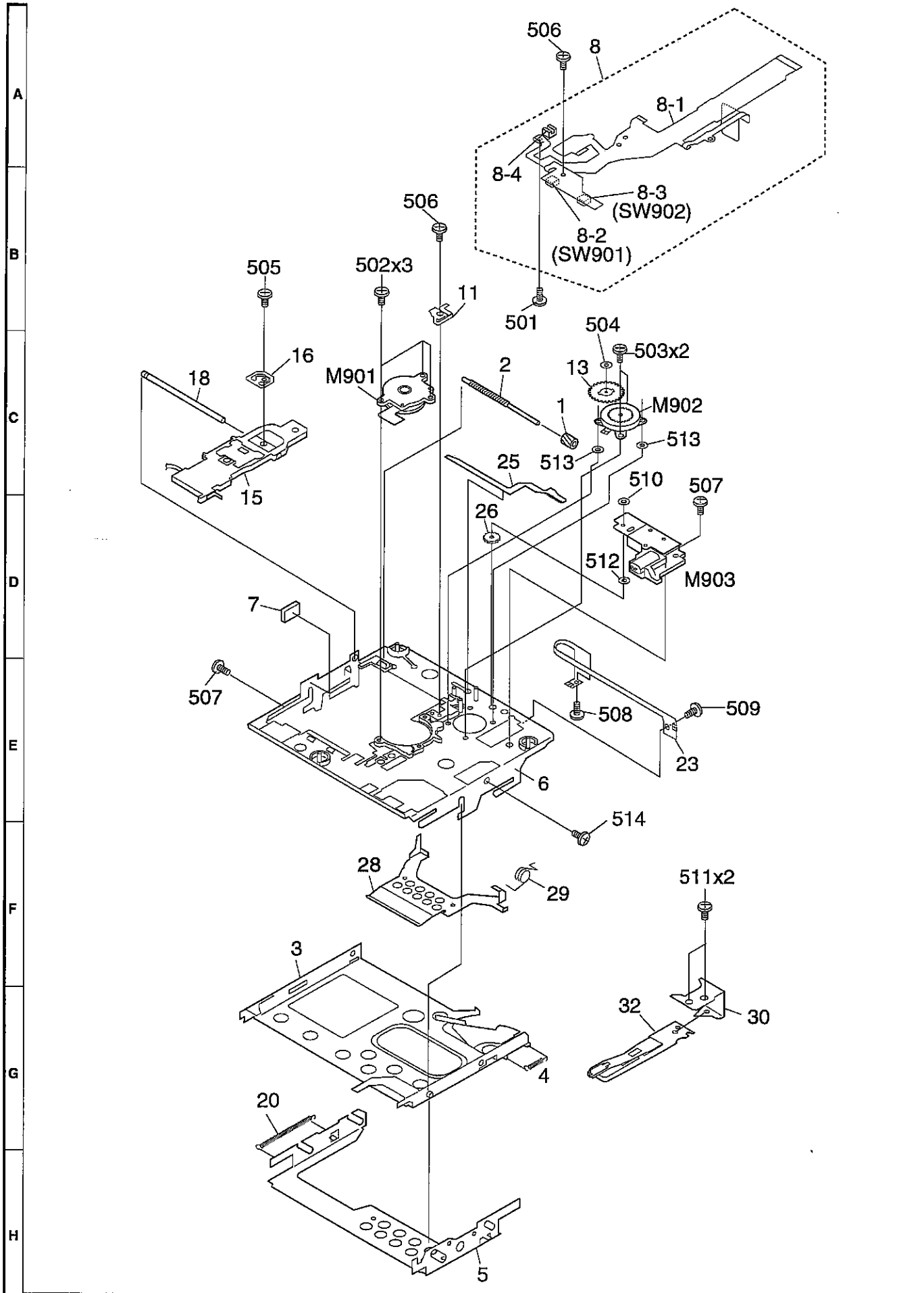


Figure 6 MD MECHANISM EXPLODED VIEW

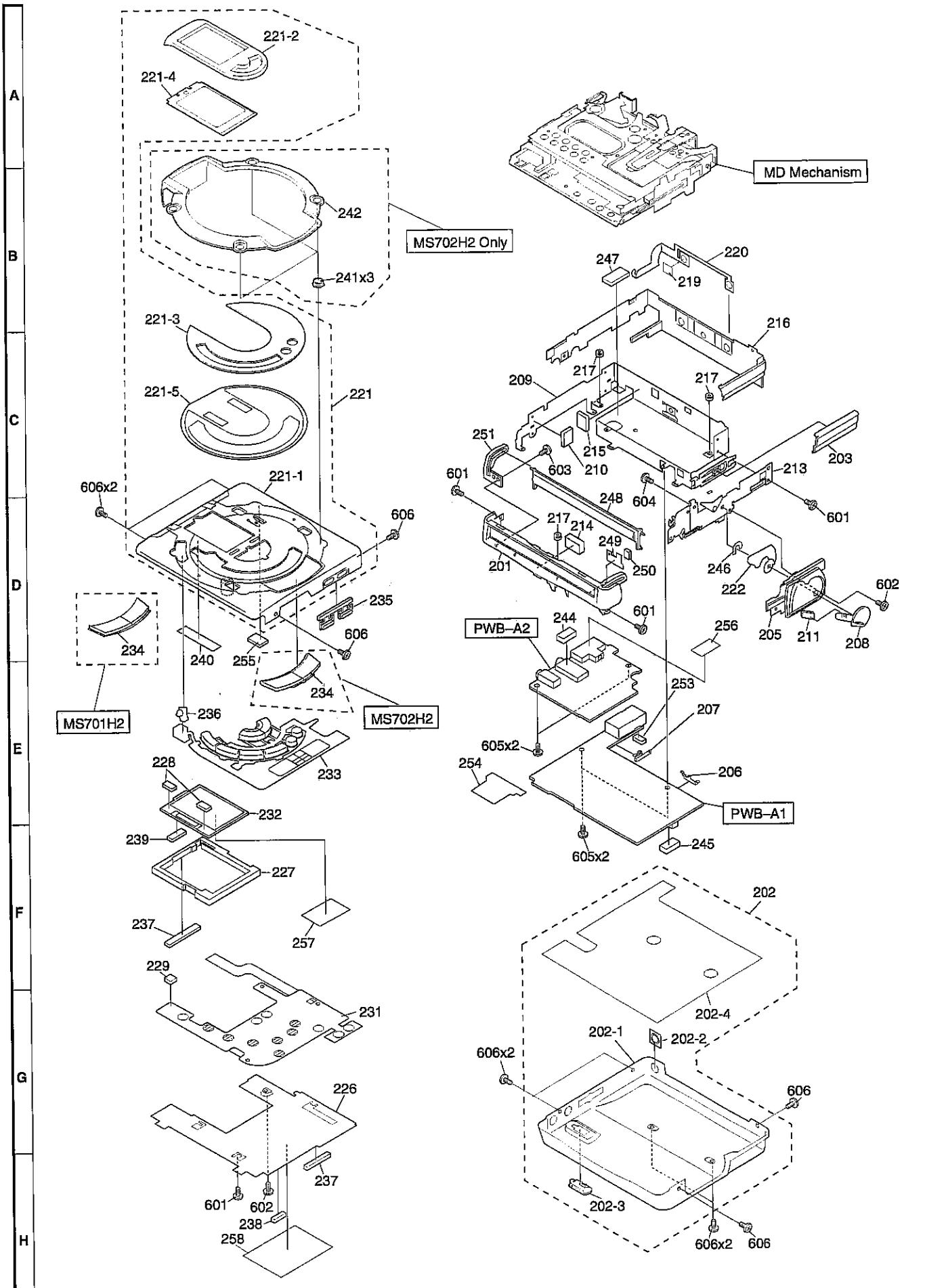
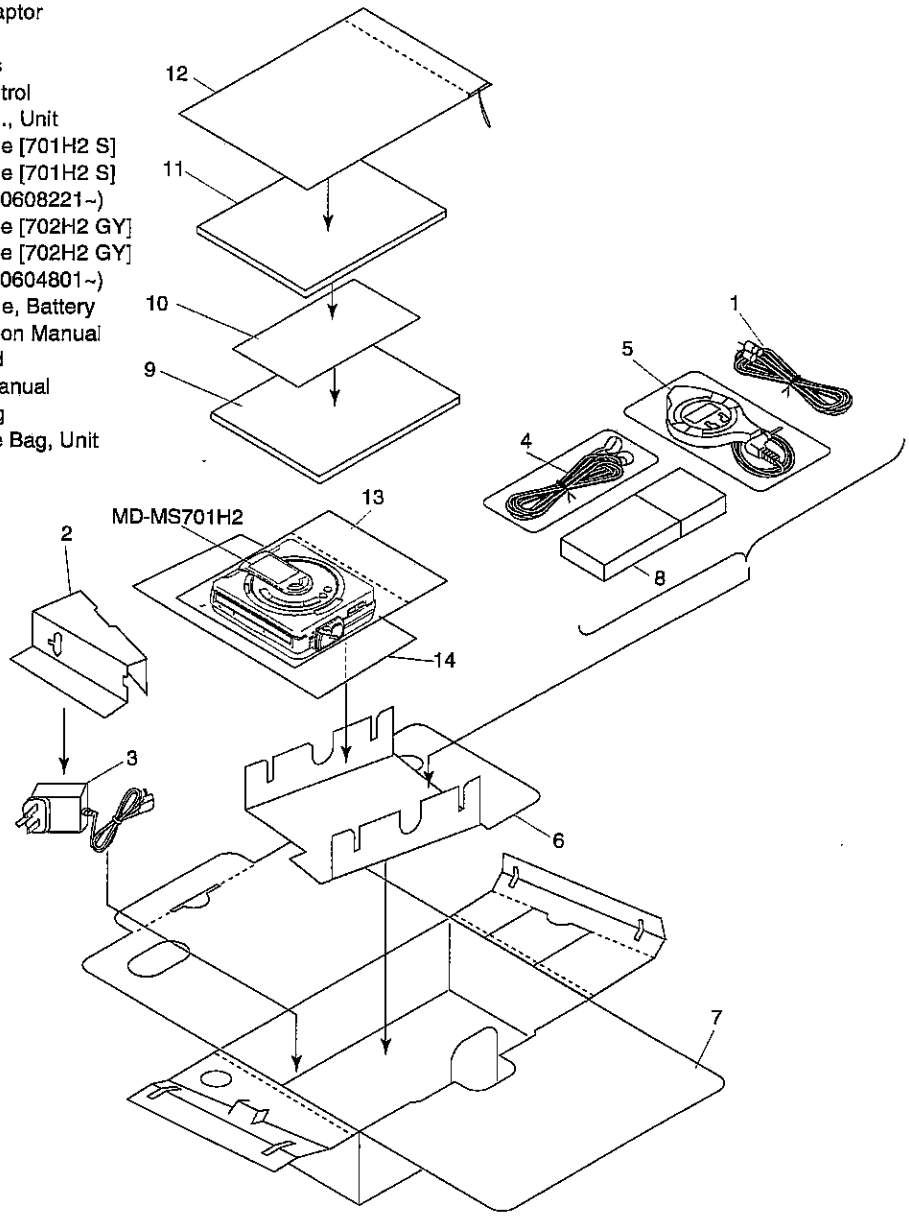


Figure 7 CABINET EXPLODED VIEW

PACKING METHOD (FOR UK ONLY)

SETTING POSITION OF SWITCHES AND KNOBS		
UNIT	HOLD	OFF
Remote Control	HOLD	CANCEL

1. QCNMG0382AFZZ	Connecting Cord, RCA Type
2. SPAKZ0481AFZZ	Pad, AC Adaptor
3. RADPA8487AFZZ	AC Adaptor
4. RPHOH0176AFZZ	Headphones
5. RRMCW0024AFZZ	Remote Control
6. SPAKA2679AFZZ	Packing Add., Unit
7. SPAKC6614AFZZ	Packing Case [701H2 S]
7. SPAKC6646AFZZ	Packing Case [701H2 S] (Serial No. 80608221~)
7. SPAKC6613AFZZ	Packing Case [702H2 GY]
7. SPAKC6648AFZZ	Packing Case [702H2 GY] (Serial No. 80604801~)
8. UBATI0068AFSA	Rechargeable, Battery
9. SPAKZ0475AFZZ	Pad, Operation Manual
10. TCADS0085AFZZ	Service Card
11. TINSE1639AFZZ	Operation Manual
12. UBAGC0076AFSA	Carrying Bag
13. SSAKH0314AFZZ	Polyethylene Bag, Unit
14. SPAKZ0479AFZZ	Sheet



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SHARP CORPORATION
Communication Systems Group
Quality & Reliability Control Center
Higashihiroshima, Hiroshima 739-0192, Japan
Printed in U.K.

A9806-2896NS•HA•J

SG • SK